Correlation analysis among social networks measures for directed scale free network

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A thesis submitted in partial fulfillment of the requirements for the degree of Bachelor of Science in Computer Science and Engineering

Declaration

This thesis has been submitted to the department of Computer Science and Engineering, East West University in the partial fulfillment of the requirement for the degree of Bachelor of Science in Computer Science and Engineering by me under the supervision of Md, Sarwar kamal , Senior Lecturer at Department of CSE at East West University under the course 'CSE 497'. I also declare that this thesis has not been submitted elsewhere for the requirement of any degree or any other purposes. This thesis complies with the regulations of this University and meets the accepted standards with respect to originality and quality. We hereby release this thesis to the public. We also authorize the University or other individuals to make copies of this thesis as needed for scholarly research.

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Letter of Acceptance

The thesis entitled "Correlation analysis among social networks measures for directed scale free network" submitted by RAKIB HASSAN PRAN, ID:2013-3-60-007 to the department of Computer Science & Engineering, East West University, Dhaka 1212, Bangladesh is accepted as satisfactory for partial fulfillments for the degree of Bachelor of Science in Computer Science & Engineering in August 2017.

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ABSTRACT:

Directed scale free network is a network which exists in WWW (World Wide Web), phone call, E.Coli. metabolism, etc. There are many network measures which are used to apply on directed scale free network but it is not known how much they are statistical dependent or correlated with each other. In our research, we selected 12 popular social network measures which were applied on 48,945 directed scale free network graphs (almost all types of directed scale free network) which are generated by "Bela Bollobas, Christian Borgsy, Jennifer Chayesz, Oliver Riordanx's directed scale free graph" algorithm [1] and found out how much correlated these 12 social network measures with each other by using PEARSON CORRELATION. Then we found out which is better for computation time among correlated measures .We found out 9 measures are highly correlated among 12 measures. Our Core_i7 processor computer needed more than 112 hours (4 days 16 hours) to find out highly correlated measures for directed scale free network .

INTRODUCTION:

In our world, somehow everything is connected which implies that network exists in every place. Network science is developed day by day. Network science nowadays a technology that surrounds us from every corner of our day to day life. From one sense, it is a part and parcel of our life, like that it is help us unveil many mysteries of different aspects of science. It is now an essential part in computer science, physics, in case of micro-biology. Its importance is no less than that of mandatory part of it. From medical science to engineering, network science establish its strong hold to direct the way of victory.

In this paper, we are going to research on directed scale free network by applying 12 popular measures and finding out similarity among them. We are going to solve the two question which are

"1. Is there any statistical dependency (correlation) exists among 12 types of social network measures or analysis (SNA) algorithm if we apply these 12 types of algorithm on directed scale free network?"

"2. If correlation exists then, among correlated algorithms, which algorithm will take less computation time?"

So, we used "Bela Bollobas, Christian Borgsy, Jennifer Chayesz, Oliver Riordanx's directed scale free graph"[1] algorithm and applied 12 popular social network measures on them and uesd core i7 processor compuer to find out correlation among those nework measures.

SCALE FREE NETWORK PROPERTIES:

Scale free network is a network which degree distribution follows power law

In scale free network, the fraction $P(k)$ of nodes in the network having k connections to other nodes goes for large values of k as

$$P(k) \sim k^{-\Upsilon} \quad \text{Or,} \quad \lim_{k \to \infty} \frac{P(k)}{k^{-\Upsilon}} = 1$$

Where, Υ is a parameter which value is generally in the range $2 < \Upsilon < 3$.

Here,

$$P(k) = \frac{number\ of\ nodes\ which\ having\ k\ connection}{total\ number\ of\ nodes}$$

Directed scale free network is nothing but scale free network with directed edge which in degree distribution and out degree distribution follows power law.

SOCIAL NETWORK MEASURES:

Social network measures mean ways of Social Network Analysis(SNA).

There are several types of social network measures. Different types of social network measures are used to measure different types of network attributes like as centrality, clustering , closeness , vitality , density ,etc. Each social network measure follows a specified algorithm to find out particular attribute of network.

In this research, we used 12 types of SNA algorithms which are given bellow:

1. Degree centrality[2]

2. In-degree centrality[2]

3. Out-degree centrality[2]

4. Square clustering[3]

5. Betweenness centrality[4][5][6][7]

6. Closeness vitality[8]

7. Closeness centrality[9]

8. Load centrality[10][11]

9. Clustering coefficient[12]

10. Eigenvector centrality[13][14]

11. Page rank[15][16]

12. Average neighbor degree[17]

DIRECTED SCALE FREE NETWORK GEERATION ALGORITHM MODEL:

If we want to find out correlation among 12 SNA algorithms for directed scale free network then it's not enough for applying these algorithms for few directed scale free networks.

Other hand, it's impossible to apply these 12 SNA algorithms for all directed scale free networks of the world.

So, we need a technique to solve this problem.

We need to categorize directed scale free network by its type and generate possible types of directed scale free network. We used a DIRECTED SCALE FREE NETWORK GENERATION ALGORITHM for categorizing types and generating a large set of directed scale free networks.

We selected "Bela Bollobas, Christian Borgsy, Jennifer Chayesz, Oliver Riordanx's directed scale free graph" algorithm to generate a large set of random directed scale free network.

There are 5 parameters in this algorithm. These are α,β,Υ,δin and δout. We used these five parameters to categorized type of directed scale free network.

Model description:

Here,α , β, Υ, δin and δout are 5 parameters where

$$\alpha + \beta + \gamma = 1 \ldots \ldots \ldots \ldots eq(1)$$

G(n) is a directed random graph with n edges, N(n) nodes.

Set of nodes of G(n) is Vn ; so |Vn| = N(n).

Set of edges of G(n) is En = {(u,v) ∈ Vn x Vn : (u,v) ∈ En }

In-degree of v is $D_{in}(v)$ and out-degree of v is $D_{out}(v)$.

With probability α, append to G(n-1),a new node v∉ V_{n-1} and create directed edge v→w ∈ V_{n-1} with probability

$$\frac{D_{in}(w) + \delta_{in}}{n - 1 + \delta_{in}N(n - 1)}$$
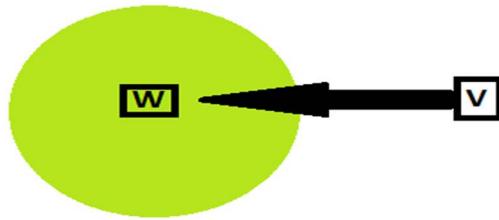
With probability γ, append to G(n-1),a new node v∉ V_{n-1} and create directed edge w∈ V_{n-1} →v∉ V_{n-1} with probability

$$\frac{D_{out}(w) + \delta_{out}}{n - 1 + \delta_{out}N(n - 1)}$$
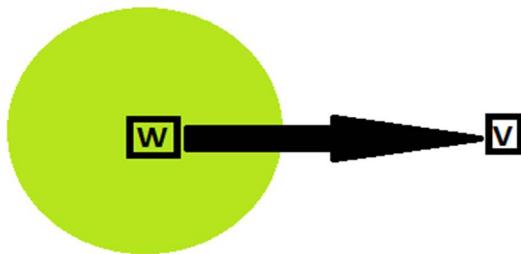
With probability β, create new directed edge between existing nodes.

Here, created edge $v \in V_{n-1} \rightarrow w \in V_{n-1}$ with probability

$$\left(\frac{D_{in}(w)+\delta_{in}}{n-1+\delta_{in}N(n-1)}\right)\left(\frac{D_{out}(w)+\delta_{out}}{n-1+\delta_{out}N(n-1)}\right)$$
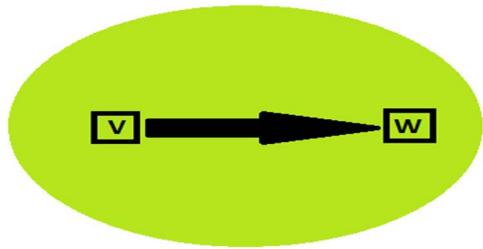
The proportion of nodes with in-degree i will be

$$p_i = \lim_{n\to\infty}\frac{N_i(n)}{N(n)}$$

Where, N(n)=number of nodes in Vn and Ni(n)=number of nodes with in-degree i

The proportion of nodes with in-degree j will be

$$q_j = \lim_{n\to\infty}\frac{N_j(n)}{N(n)}$$

Where, N(n)=number of nodes in Vn and Nj(n)=number of nodes with out-degree j

The p_i has power law tail so we get,

$$p_i \sim C_{IN}i^{-X_{in}}$$

where, C_{IN} is positive constant and $i \rightarrow \infty$ and $\alpha\delta_{in} + \gamma > 0$ and

$$X_{in} = \frac{\alpha + \beta + 1 + \delta_{in}(\alpha + \gamma)}{\alpha + \beta}, \delta_{in} \geq 0 \ldots\ldots\ldots eq(2)$$

And

$$\delta_{in} = \frac{X_{in}(\alpha + \beta) - \alpha - \beta - 1}{\alpha + \gamma}, \delta_{in} \geq 0 \ldots\ldots\ldots eq(3)$$

The q_i has power law tail so we get,

$$q_i \sim C_{out} i^{-X_{out}}$$

where, C_{out} is positive constant and i → ∞ and $\gamma\delta_{in} + \alpha > 0$ and

$$X_{out} = \frac{\gamma + \beta + 1 + \delta_{out}(\alpha + \gamma)}{\gamma + \beta}, \delta_{out} \geq 0 \ldots\ldots\ldots eq(4)$$

and

$$\delta_{out} = \frac{X_{out}(\gamma + \beta) - \gamma - \beta - 1}{\alpha + \gamma}, \delta_{out} \geq 0 \ldots\ldots\ldots eq(5)$$

METHODOLOGY:

Now, we are going to categorize the type of directed scale free network by using these 5 parameters.

Here, α,β,ϒ, δin and δout must be greater than zero.

To avoid other uninteresting issues ,

we presumed that α>0 ,β>0 ,ϒ>0

and δin>=0 and δout>=0

So, Let , lowest value of α, β, Υ (separately) is 0.1

If lowest value of α,β,Υ (separately) is 0.1 then,

because of α+β+Υ=1,

the highest value of α,β,Υ (separately) is 0.8.

Now, we are taking a set of value for α,β,Υ (separately)

Which is

$$\{0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8\}$$

Here, lowest value is 0.1 and highest value is 0.8

Now, we are going to follow 2 procedures to generate the set of directed scale free network.

First procedure in nutshell:

▶ We used $\alpha, \beta, \gamma, X_{in}, X_{out}$ to find out $\delta_{in}, \delta_{out}$ where $\delta_{in} \geq 0, \delta_{out} \geq 0$

▶ For α, β, γ ,for each we used the previous set which is {0.1,0.2,0.3,.....,0.8}

▶ For X_{in}, X_{out} ,for each we use the set {2.0,2.05,2.1,2.15,.......,2.95,3.0}

▶ Then needed to justify these set by satisfying $eq(1), eq(3), eq(5)$, we got ,

for δ_{in} , δ_{out} , for each a set with range of (0,4) which we'll describe it in experiment-1

section.

▶ We use the range of (2,3) because almost all directed scale free network's

X_{in}, X_{out} has value in this range which is given in next slide.

Table 1

Network	X_{in}	X_{out}	REFERENCES
WWW	2.1	2.45	Albert, Jeong, Barabasi 1999
WWW	2.1	2.38	Kumar *et al.* 1999
WWW	2.1	2.72	Broder *et al.* 2000
WWW , site	1.94		Huberman, Adamic 2000
E . Coli metabolism	2.2	2.2	Jeong *et al.* 2000
Phone call	2.1	2.1	Aiello *et al.* 2000

Second procedure in nutshell:

- We used $\alpha, \beta, \gamma, \delta_{in}, \delta_{out}$ to find out X_{in}, X_{out} where $2 \leq X_{in} \leq 3, 2 \leq X_{out} \leq 3$

- For α, β, γ ;for each we used the previous set which is {0.1,0.2,0.3,.....,0.8}

- For $\delta_{in}, \delta_{out}$;for each we used the set {0.0,0.2,0.4,0.6,........,3.8,4.0}

- Then, needed to justify these set by satisfying $eq(1), eq(2), eq(4)$, we got ,

  for X_{in}, X_{out} , for each a set with range of (2,3).

- We used the range of (0,4) for $\delta_{in}, \delta_{out}$ because we got this range

  from procedure1 which we'll describe in experiment1 section.

We did 2 experiments.

In experiment 1, we followed procedure 1.

In experiment 2, we followed procedure 2.

Both experiments were used to generate a large set of scale free network.

After generating these large set of networks, we applied 12 SNA algorithms on those network to identify correlation among algorithms.

EXPERIMENT-1:

Now, we see from table 1, most of X_{in} and X_{out} has range $2<X_{in}<3$ and $2<X_{out}<3$

So, we are taking a set for X_{in} and X_{out} individually which is {2.0,2.05,2.1,2.15,2.2,........,2.95,3}.

This is a set from 2 to 3 with interval 0.5.

We generated a scatter diagram of α vs β vs Υ by using

α={0.1,0.2,0.3,0.4,0.5, 0.6,0.7,0.8}

β={0.1,0.2,0.3,0.4,0.5,0.6,0.7,0.8}

Ɣ={0.1,0.2,0.3,0.4,0.50.6,0.7,0.8}

X_{in}= {2.0,2.05,2.1,2.15,2.2,........,2.95,3}

X_{out}= {2.0,2.05,2.1,2.15,2.2,........,2.95,3}

Putting these set's element in $eq(1), eq(3), eq(5)$ and we found out for which α,β,Ɣ values satisfied $eq(1), eq(3), eq(5)$.
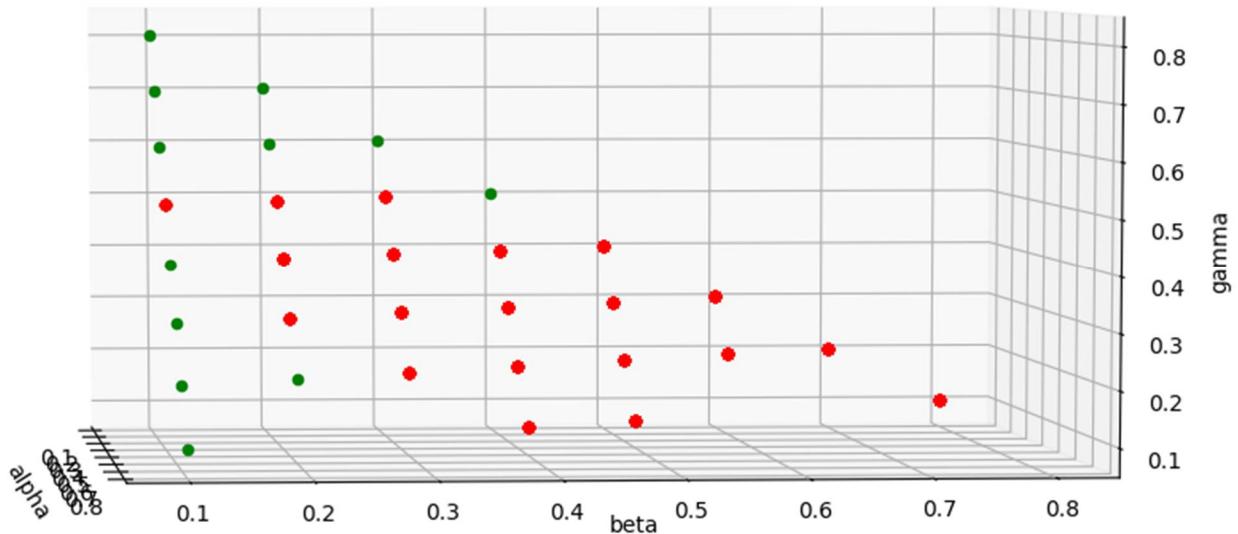
Fig: scatter diagram of α vs β vs Ɣ
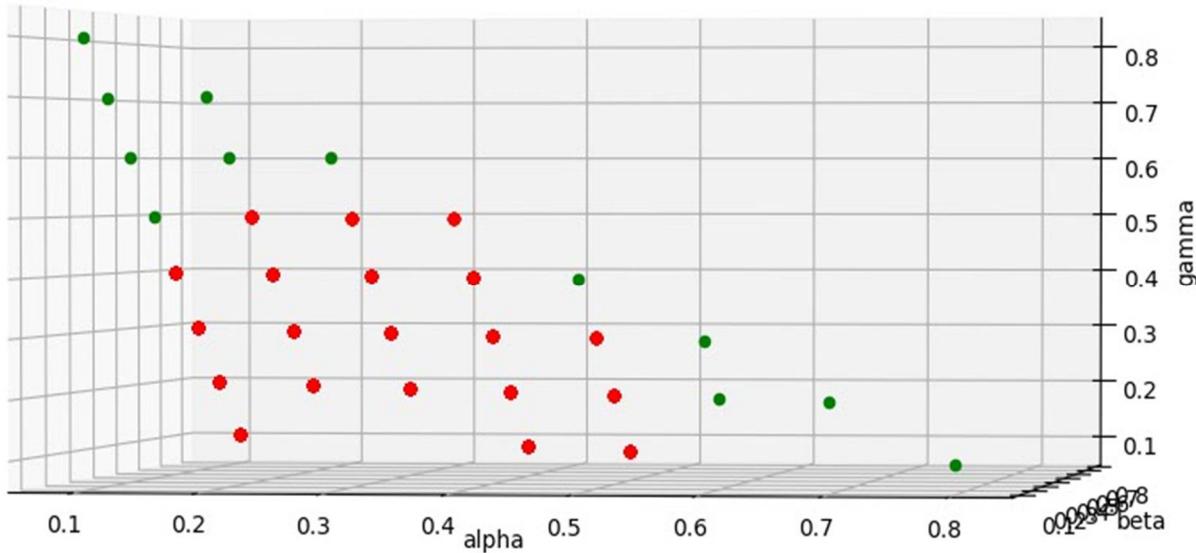
Fig: scatter diagram of α vs β vs ϒ

What we got from scatter diagram,

There are 32 types (red and blue points) of α,β,ϒ combination which satisfied only $eq(1)$

but 20 types (only red points) which satisfied $eq(1), eq(3), eq(5)$

So, these 20 red points are our target points because it satisfied $eq(1), eq(3), eq(5)$.

But, by observing these 20 points , we found out that,

The elements {0.6,0.7,0.8} of α and ϒ has no use among these 20 red points

So, we reconstructed our sets which are

α={0.1,0.2,0.3,0.4,0.5}

β={0.1,0.2,0.3,0.4,0.5,0.6,0.7,0.8}

ϒ={0.1,0.2,0.3,0.4,0.5}

We generated a scatter diagram of X_{in} vs X_{out}

and another scatter diagram of δ_{in} vs δ_{out}

by satisfying $eq(1), eq(3), eq(5)$ for putting value of

α={0.1,0.2,0.3,0.4,0.5}

β={0.1,0.2,0.3,0.4,0.5,0.6,0.7,0.8}

ɣ={0.1,0.2,0.3,0.4,0.5}

X_{in}= {2.0,2.05,2.1,2.15,2.2,.........,2.95,3}

X_{out}= {2.0,2.05,2.1,2.15,2.2,.........,2.95,3}
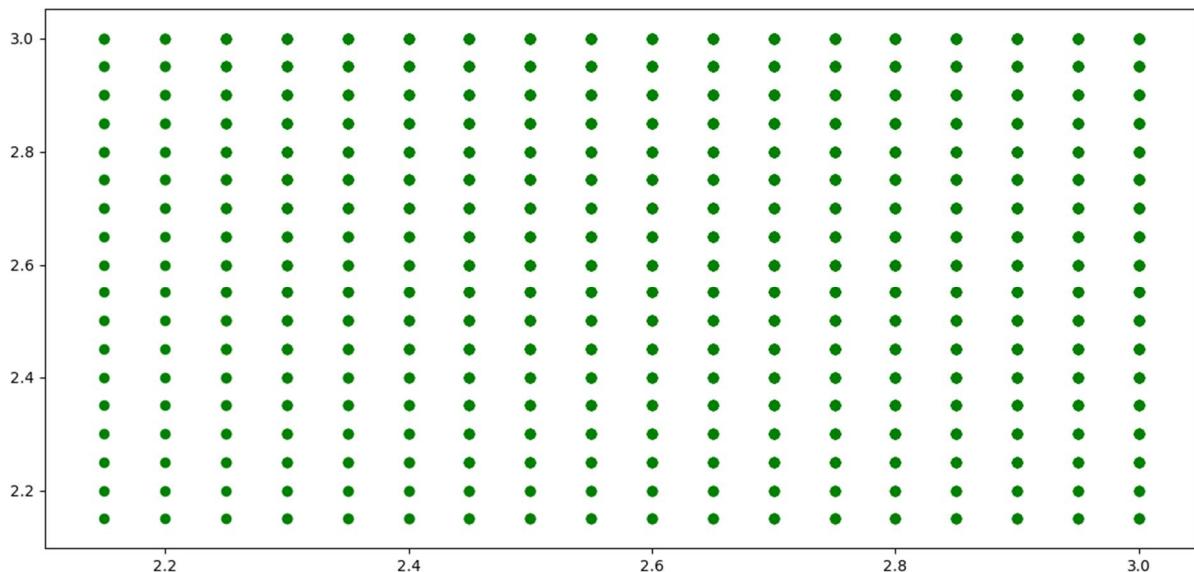
Fig: scatter diagram of X_{in} vs X_{out}
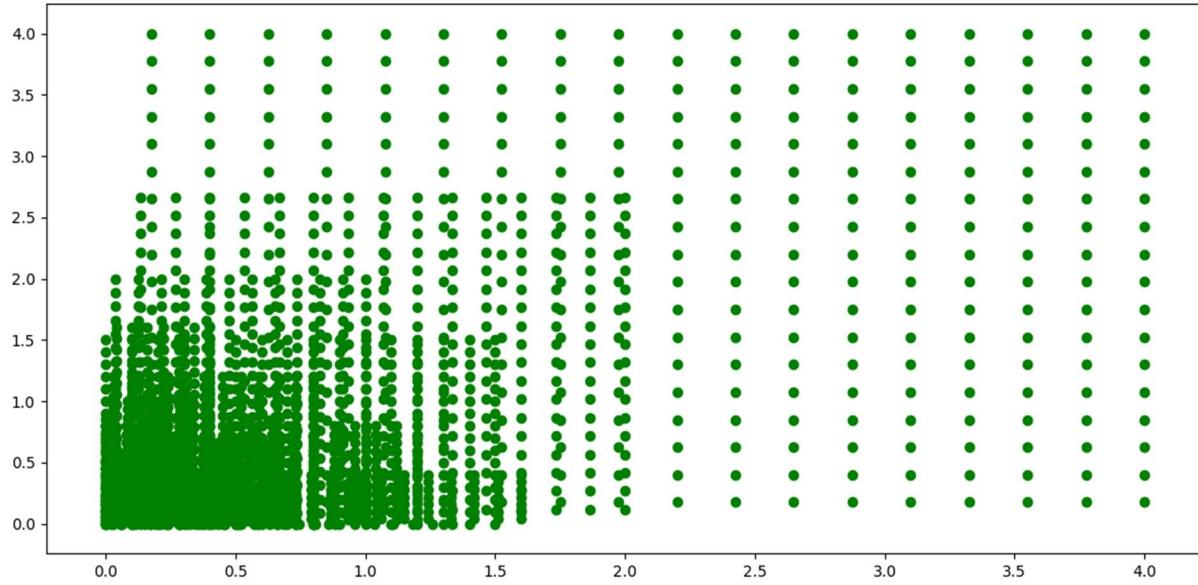
Fig: scatter diagram of δ_{in} vs δ_{out}

So, we see that all element of X_{in} and X_{out} are not satisfying $(1), eq(3), eq(5)$. we needed to reconstruct the element of X_{in} and X_{out}.

we see from the graph(X_{in} vs X_{out}) that element 2.1 is not satisfied

the $eq(3), eq(5)$ because of $\delta_{in} < 0$ and $\delta_{out} < 0$

But, $\delta_{out} > -1$ and $\delta_{out} > -1$

so, we considered $\delta_{in} = 0$ and $\delta_{out} = 0$ for element 2.1

So, we constructed,

X_{in}= {2.1,2.15,2.2,........,2.95,3}

X_{out}= {2.1,2.15,2.2,........,2.95,3}

We used 2.1 as element of X_{in} and X_{out} because Bela Bollobas's "directed scale free graphs" 's

"4.particular values" section considered $\delta_{in} = -0.019$ as 0 when α=0.41,β=0.49,Υ=0.1 and X_{in}=2.1

Now, put these α, β, Υ, X_{in}, X_{out} set elements in table 2 and find out the combination

α	β	γ	X_{in}	X_{out}
0.1	0.1	0.1	2.1	2.1
0.2	0.2	0.2	2.15	2.15
0.3	0.3	0.3	2.2	2.2
0.4	0.4	0.4	2.25	2.25
0.5	0.5	0.5	2.3	2.3
	0.6		2.35	2.35
	0.7		2.4	2.4
	0.8		2.45	2.45
			2.5	2.5
			2.55	2.55
			2.6	2.6
			2.65	2.65
			2.7	2.7
			2.75	2.75
			2.8	2.8
			2.85	2.85
			2.9	2.9
			2.95	2.95
			3	3

Now, we need to find out how many combination exists of table 1 and how many combination satisfy $eq(1), eq(3), eq(5)$ except the combination with element 2.1.

▶ Combination exist =$5C_1 \times 8C_1 \times 5C_1 \times 19C_1 \times 19C_1$=72200

We found out , among these 72200 combination , only 2354 combination satisfy $eq(1), eq(3), eq(5)$.We can say it by another way that, among these 72200 network types, only 2354 network types are scale free network types.

Now, we decided to generate these 2354 types of scale free network for 50,100 and 500 nodes.

We chose this small size of network to reduce our computation time

▶ We generated 5 random scale free networks for each type.

▶ So , the total number of scale free network for experiment 1

$$= 3 \times 5 \times 2354 = 35310$$

We divided experiment 1 into few parts because of proper analysis and computation time efficiency.

We divided this experiment by X_{in} and X_{out} comparison which are

i) $X_{in} > X_{out}$

ii) $X_{in} < X_{out}$

iii) $X_{in} = X_{out}$

In experiment-1,

for each node type (50,100 and 500) , we got ,

▶ 5770 numbers of network for $X_{in} > X_{out}$

▶ 5240 numbers of network for $X_{in} < X_{out}$

▶ 760 numbers of network for $X_{in} = X_{out}$

EXPERIMENT-2:

Now, we see from experiment 1's graph (δ_{in} vs δ_{out}) that, the range of δ_{in} and δ_{out} is (0,4)

So, we took a set from range (0,4) with interval of 0.2

which are

δ_{in}={0.0,0.2,0.4,0.6,........,3.6,3.8,4.0}

δ_{out} ={0.0,0.2,0.4,0.6,........,3.6,3.8,4.0}

Now, according to EXPERIMRNT1,

we took the set of α, β, γ and also added set of δ_{in} and δ_{out}

which are,

α={0.1,0.2,0.3,0.4,0.5, 0.6,0.7,0.8}

β={0.1,0.2,0.3,0.4,0.5,0.6,0.7,0.8}

Υ={0.1,0.2,0.3,0.4,0.50.6,0.7,0.8}

δ_{in}={0.0,0.2,0.4,0.6,.......,3.6,3.8,4.0}

δ_{out}={0.0,0.2,0.4,0.6,.......,3.6,3.8,4.0}

we drew scatter diagram of α vs β vs γ by satisfying $eq(1), eq(2), eq(4)$ for these sets elements.

Fig: Scatter diagram of α vs β vs γ for EXPERIMENT 2
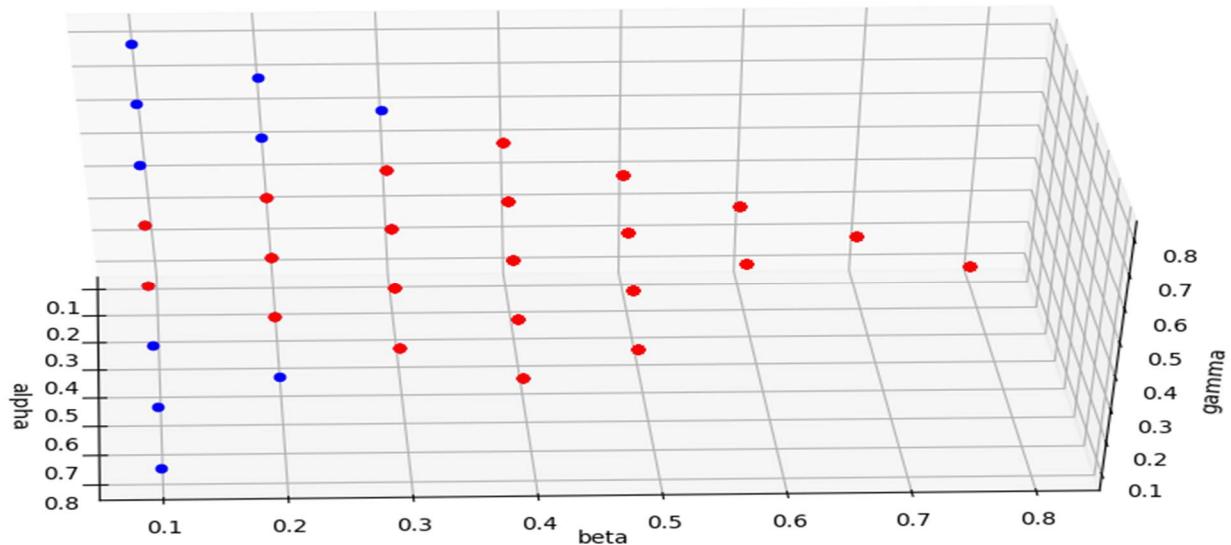
Fig: Scatter diagram of $\alpha\ vs\ \beta\ vs\ \gamma$ for EXPERIMENT 2

What we got from scatter diagram,

There exists 32 points(red and blue points) which satisfy $eq(1)$ (it is similar to experiment1).

But there exists 22 points(only red points) which satisfy $eq(1), eq(2), eq(4)$

This is not similar to experiment1 because, in experiment1, we found 20 red points which satisfy $eq(1), eq(3)\ and\ eq(5)$.

So, we can say that,

▶ EXPERIMENT_2 is better than EXPERIMENT_1 for α, β, γ's combination types

But, by observing these 22 points , we found out that,

The elements {0.6,0.7,0.8} of α and ϒ has no use among these 20 red pointswhich is similar to EXPERIMENT-1.

So, we reconstructed our sets which are

α={0.1,0.2,0.3,0.4,0.5}

β={0.1,0.2,0.3,0.4,0.5,0.6,0.7,0.8}

ϒ={0.1,0.2,0.3,0.4,0.5}

We generated a scatter diagram of X_{in} vs X_{out} and another scatter diagram of δ_{in} vs δ_{out} by satisfying $eq(1), eq(3), eq(5)$ for putting value of

α={0.1,0.2,0.3,0.4,0.5}

β={0.1,0.2,0.3,0.4,0.5,0.6,0.7,0.8}

ϒ={0.1,0.2,0.3,0.4,0.5}

δ_{in}={0.0,0.2,0.4,0.6,........,3.6,3.8,4.0}

δ_{out}={0.0,0.2,0.4,0.6,........,3.6,3.8,4.0}
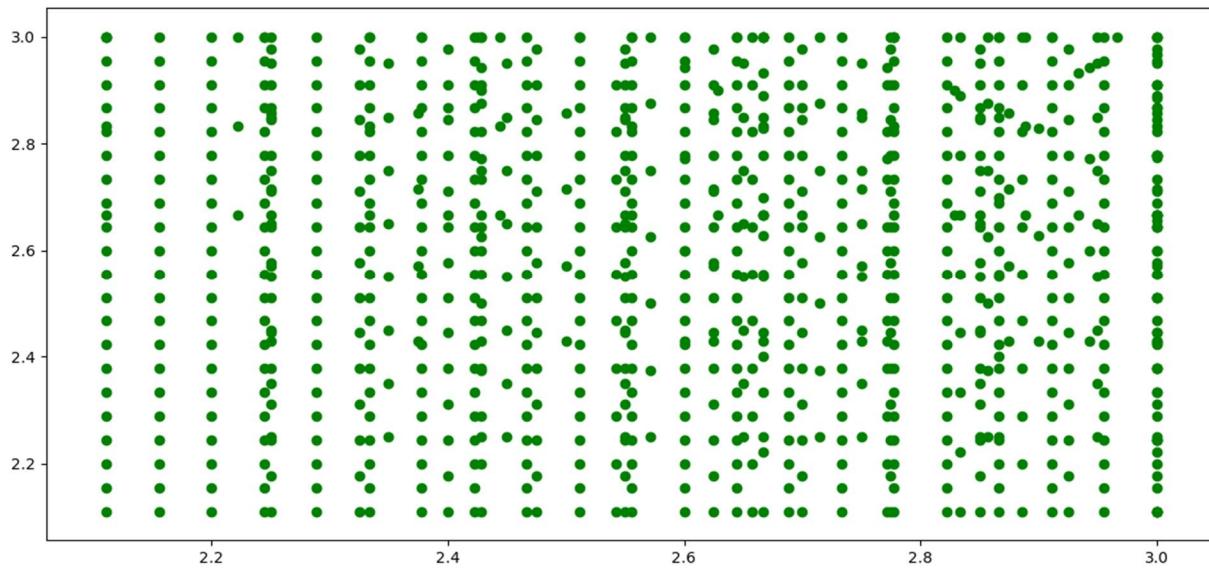
Fig: scatter diagram of X_{in} vs X_{out} for EXPERIMENT_2
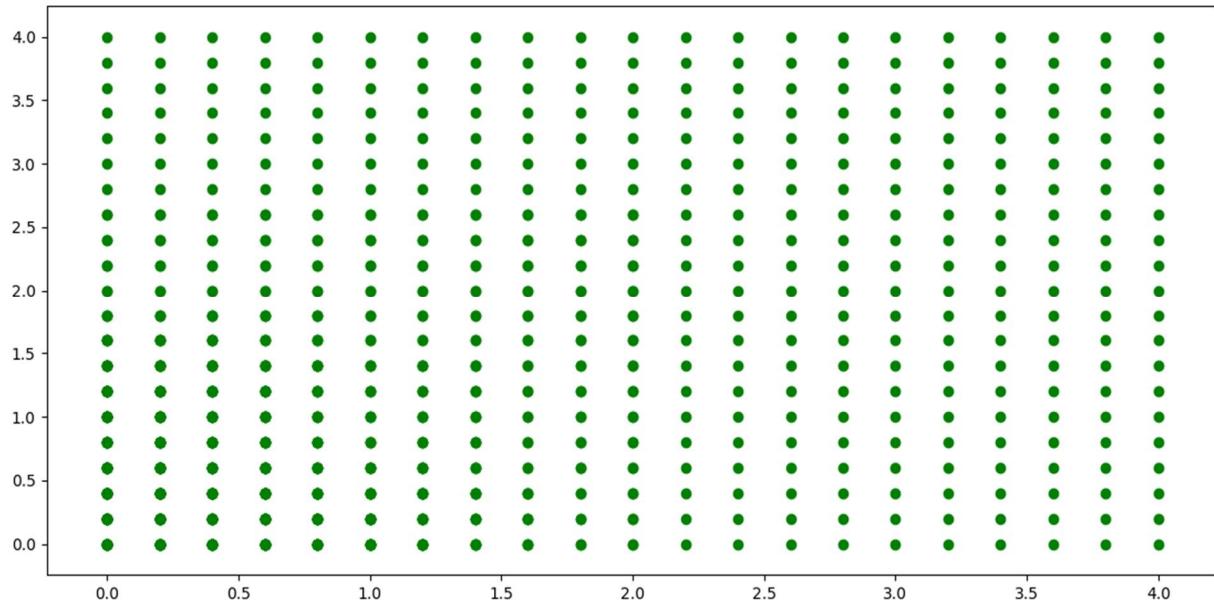
Fig: scatter diagram of $\delta_{in} \; vs \; \delta_{out}$ for EXPERIMENT2

Now, we see from scatter diagram of $X_{in} \; vs \; X_{out}$ for EXPERIMENT-2 ,

the range of $X_{in} \; and \; X_{out}$ is (2.1,3.0) which we used it in EXPERIMENT-1 as taking the set of range of (2.1,3.0)(see table 2's $X_{in} \; and \; X_{out}$ column).

We see,In experiment_2, $X_{in} \; and \; X_{out}$ is not welly distributed as experiment_1.

we see from scatter diagram of $\delta_{in} \; vs \; \delta_{out}$ for EXPERIMENT_2,

all element of $\delta_{in} \; and \; \delta_{out}$ are satisfying $eq(1), eq(3), eq(5)$.

In experiment_2, $\delta_{in} \; and \; \delta_{out}$ is more welly distributed than experiment_1.

α	β	γ	δ_{in}	δ_{out}
0.1	0.1	0.1	0.0	0.0
0.2	0.2	0.2	0.2	0.2
0.3	0.3	0.3	0.4	0.4
0.4	0.4	0.4	0.6	0.6
0.5	0.5	0.5	0.8	0.8
	0.6		1.0	1.0
	0.7		1.2	1.2
	0.8		1.4	1.4
			1.6	1.6
			1.8	1.8
			2.0	2.0
			2.2	2.2
			2.4	2.4
			2.6	2.6
			2.8	2.8
			3.0	3.0
			3.2	3.2
			3.4	3.4
			3.6	3.6
			3.8	3.8
			4.0	4.0

Now, we need to find out how many combination exist of table3 and how many combination satisfy $eq(1), eq(2), eq(4)$

▶ Combination exist = $5C_1 \times 8C_1 \times 5C_1 \times 21C_1 \times 21C_1 = 88200$

We found out, among these 88200 combination, only 909 combination satisfy $eq(1), eq(2), eq(4)$

we can say it by another way that, among these 88200 network types , only 909 network types are scale free network types.

Now, we decided to generate these 909 types of scale free network.

For 50,100 and 500 nodes,

We chose this small size of network to reduce our computation time

We generated 5 random scale free networks for each type.

So , the total number of scale free network for experiment 2

$$= 3 \times 5 \times 909$$

$$= 13635$$

We divided experiment 2 into few parts because of proper analysis and computation time efficiency.

We divided this experiment by X_{in} and X_{out} comparison which are

i) $X_{in} > X_{out}$

ii) $X_{in} < X_{out}$

iii) $X_{in} = X_{out}$

In experiment-2,

For each node type (50,100 and 500) , we got ,

2290 numbers of network for $X_{in} > X_{out}$

2070 numbers of network for $X_{in} < X_{out}$

185 numbers of network for $X_{in} = X_{out}$

CORRELATION:

Now, we applied 12 social network measures on experiment 1 and experiment 2.These 12 social network measures are nothing but nodal analysis so we got measured value of each node for each measure which means 12 measured value for each node. We stored these values as matrix (we denoted these matrix as "nodal measure matrix").

In nodal measure matrix, rows represent social network measures and columns represent nodes.

So, we needed to compute statistical dependency among rows and stored these correlation into another matrix (which we denoted as "result matrix")

In result matrix, rows and columns both represent social network measures.

We chose PEARSON CORRELATION to find out statistical dependency among 12 social network measures for avoiding scaling issues between measures.

Pearson correlation is a nonparametric measures of statistical dependency which is used to compare the rank order outcome of the measures.

▶ **PEARSON CORRELATION:**

$$\frac{n \sum_{i=1}^{n} x_i y_i - \sum_{i=1}^{n} x_i \sum_{i=1}^{n} y_i}{\sqrt{n \sum_{i=1}^{n} x_i^2 - (\sum_{i=1}^{n} x_i)^2} \sqrt{n \sum_{i=1}^{n} y_i^2 - (\sum_{i=1}^{n} y_i)^2}}$$

Where,

n = number of columns in nodal measure matrix =number of total nodes

x_i = i th number of column of x th number of row in nodal measure matrix

= i th number of measure of x th number of node

$y_i = i$ th number of column of y th number of row in nodal measure matrix

$= i$ th number of measure of y th number of node

CODING LANGUAGE AND COMPUTING MACHINE:

We used Python's Networkx package to compute the whole experiment.We used networkx built-in-function for measures which are available in networkx 1.10 documentation.

There are two built-in-function used for pagerank measures in networkx . One from "scipy" module and another from "numpy" module. We used both to identify which is better for computation time.

We used betweenness centrality as two procedures. One as betweenness centrality and other is betweenness centrality subset. Both are same except for computing with subset.

So, considering two page rank and two betweenness centrality,

the total number of measures we got, is 14.

So, we used 14 measures (including two page rank and two betweenness centrality)

which implies our "result matrix" are 14 × 14 size matrix.

COMPUTING MACHINE:

Processor: Intel(R) Core(TM) i7-6500U CPU @ 2.50GHz (4 CPUs), ~2.6GHz

Operating System: Windows 10 Pro 64-bit

Memory: 4096MB RAM

Available OS Memory: 3934MB RAM

MATRIX SIZE:

In experiment-1,

For 50 numbers of nodes, we got,

▶ 5770 numbers of network for $X_{in} > X_{out}$

Which implies the nodal measure matrix size is 14×288500

▶ 5240 numbers of network for $X_{in} < X_{out}$

Which implies the nodal measure matrix size is 14×262000

▶ 760 numbers of network for $X_{in} = X_{out}$

Which implies the nodal measure matrix size is 14×38000

In experiment-1,

For 100 numbers of nodes, we got,

▶ 5770 numbers of network for $X_{in} > X_{out}$

Which implies the nodal measure matrix size is 14×577000

▶ 5240 numbers of network for $X_{in} < X_{out}$

Which implies the nodal measure matrix size is 14×524000

▶ 760 numbers of network for $X_{in} = X_{out}$

Which implies the nodal measure matrix size is 14×76000

In experiment-1,

For 500 numbers of nodes, we got,

▶ 5770 numbers of network for $X_{in} > X_{out}$

Which implies the nodal measure matrix size is 14×2885000

▶ 5240 numbers of network for $X_{in} < X_{out}$

Which implies the nodal measure matrix size is 14×2620000

▶ 760 numbers of network for $X_{in} = X_{out}$

Which implies the nodal measure matrix size is 14×380000

In experiment-1,the number of "nodal measured matrix" is 9

In experiment-2,

For 50 numbers of nodes, we got,

▶ 2290 numbers of network for $X_{in} > X_{out}$

Which implies the nodal measure matrix size is 14×114500

▶ 2070 numbers of network for $X_{in} < X_{out}$

Which implies the nodal measure matrix size is 14×103500

▶ 185 numbers of network for $X_{in} = X_{out}$

Which implies the nodal measure matrix size is 14×9250

In experiment-2,

For 100 numbers of nodes, we got,

▶ 2290 numbers of network for $X_{in} > X_{out}$

Which implies the nodal measure matrix size is 14×229000

▶ 2070 numbers of network for $X_{in} < X_{out}$

Which implies the nodal measure matrix size is 14×207000

▶ 185 numbers of network for $X_{in} = X_{out}$

Which implies the nodal measure matrix size is 14×18500

In experiment-2,

For 500 numbers of nodes, we got,

▶ 2290 numbers of network for $X_{in} > X_{out}$

Which implies the nodal measure matrix size is 14×1145000

▶ 2070 numbers of network for $X_{in} < X_{out}$

Which implies the nodal measure matrix size is 14×1035000

▶ 185 numbers of network for $X_{in} = X_{out}$

Which implies the nodal measure matrix size is 14×92500

So, In experient-2, the number of "nodal measured matrix" is 9.

Outputs:

Here,

0=Degree centrality

1=In-degree centrality

2=Out-degree centrality

3=Square clustering

4=Betweenness centrality

5=Closeness vitality

6=Closeness centrality

7=Load centrality

8=Clustering coefficient

9=Eigenvector centrality

10=Page rank numpy

11=Page rank scipy

12=Average neighbor degree

13=Betweenness centrality subset

Output for 50 nodes: **Xin>Xout for expeiment-2:**   **0's length = 114500**

0's and 0's correlation = 1.0

0's and 1's correlation =
0.8596093075827006

0's and 2's correlation =
0.9287268054538813

0's and 3's correlation =
0.653668049202256

0's and 4's correlation =
0.8338347115939062

0's and 5's correlation =
0.5566244665206287

0's and 6's correlation =
0.5439981498288106

0's and 7's correlation =
0.8338913168774763

0's and 8's correlation =
0.24381883966008866

0's and 9's correlation =
0.7354900112059372

0's and 10's correlation =
0.7135217393919321

0's and 11's correlation =
0.7135485667864886

0's and 12's correlation =
0.008790212029792572

0's and 13's correlation =
0.8338347115938979

1's length = 114500

1's and 0's correlation =
0.8596093075827006

1's and 1's correlation = 1.0

1's and 2's correlation =
0.6088992403419987

1's and 3's correlation =
0.42306728758044615

1's and 4's correlation =
0.7431954909272341

1's and 5's correlation =
0.487917097161105

1's and 6's correlation =
0.36839971557333756

1's and 7's correlation =
0.7425904498277862

1's and 8's correlation =
0.2297087325927698

1's and 9's correlation =
0.8521291864595196

1's and 10's correlation =
0.8522537314098902

1's and 11's correlation =
0.8522828891773374

1's and 12's correlation =
0.005096786738192926

1's and 13's correlation =
0.7431954909272207

2's length = 114500

2's and 0's correlation =
0.9287268054538813

2's and 1's correlation =
0.6088992403419987

2's and 2's correlation = 1.0

2's and 3's correlation =
0.7078203442534851

2's and 4's correlation =
0.7552308851441636

2's and 5's correlation =
0.5101038605362074

2's and 6's correlation =
0.5772276754640564

2's and 7's correlation =
0.7557578035018739

2's and 8's correlation =
0.2118414613304665

2's and 9's correlation =
0.5235056016550084

2's and 10's correlation =
0.48930971077683827

2's and 11's correlation =
0.48933020212370965

2's and 12's correlation =
0.009948305167260505

2's and 13's correlation =
0.7552308851441641

3's length = 114500

3's and 0's correlation =
0.653668049202256

3's and 1's correlation =
0.42306728758044615

3's and 2's correlation =
0.7078203442534851

3's and 3's correlation = 1.0

3's and 4's correlation =
0.5162014351327685

3's and 5's correlation =
0.3356254294136018

3's and 6's correlation =
0.3943102333697759

3's and 7's correlation =
0.5169656798910706

3's and 8's correlation =
0.13730480058144162

3's and 9's correlation =
0.33846395553037534

3's and 10's correlation =
0.31258412526685014

3's and 11's correlation =
0.3125980942290544

3's and 12's correlation =
0.012260137779353216

3's and 13's correlation =
0.5162014351327503

4's length = 114500

4's and 0's correlation =
0.8338347115939062

4's and 1's correlation =
0.7431954909272341

4's and 2's correlation =
0.7552308851441636

4's and 3's correlation =
0.5162014351327685

4's and 4's correlation = 1.0

4's and 5's correlation =
0.7646768460411469

4's and 6's correlation =
0.5477385388135855

4's and 7's correlation =
0.9999226473523405

4's and 8's correlation =
0.2549928310776884

**4's and 9's correlation =
0.7013680355188174**

**4's and 10's correlation =
0.7295944207124754**

**4's and 11's correlation =
0.7296259387936098**

**4's and 12's correlation =
0.02575022048542133**

**4's and 13's correlation =
0.9999999999999832**

5's length = 114500

**5's and 0's correlation =
0.5566244665206287**

**5's and 1's correlation =
0.487917097161105**

**5's and 2's correlation =
0.5101038605362074**

**5's and 3's correlation =
0.3356254294136018**

**5's and 4's correlation =
0.7646768460411469**

5's and 5's correlation = 1.0

**5's and 6's correlation =
0.5707190301089765**

**5's and 7's correlation =
0.7661143032220997**

**5's and 8's correlation =
0.25021587761855013**

**5's and 9's correlation =
0.485065373018528**

**5's and 10's correlation =
0.5190464875671741**

**5's and 11's correlation =
0.5190690537708437**

**5's and 12's correlation =
0.11218643011940693**

**5's and 13's correlation =
0.7646768460411272**

6's length = 114500

**6's and 0's correlation =
0.5439981498288106**

**6's and 1's correlation =
0.36839971557333756**

**6's and 2's correlation =
0.5772276754640564**

**6's and 3's correlation =
0.3943102333697759**

**6's and 4's correlation =
0.5477385388135855**

**6's and 5's correlation =
0.5707190301089765**

6's and 6's correlation = 1.0

**6's and 7's correlation =
0.5486640615037492**

**6's and 8's correlation =
0.432295999512138**

**6's and 9's correlation =
0.3036370138959999**

**6's and 10's correlation =
0.2616999572846249**

**6's and 11's correlation =
0.26171654081197665**

**6's and 12's correlation =
0.4986983537239209**

**6's and 13's correlation =
0.5477385388135823**

7's length = 114500

**7's and 0's correlation =
0.8338913168774763**

**7's and 1's correlation =
0.7425904498277862**

**7's and 2's correlation =
0.7557578035018739**

**7's and 3's correlation =
0.5169656798910706**

**7's and 4's correlation =
0.9999226473523405**

**7's and 5's correlation =
0.7661143032220997**

**7's and 6's correlation =
0.5486640615037492**

7's and 7's correlation = 1.0

**7's and 8's correlation =
0.25533398762723225**

**7's and 9's correlation =
0.7008484876139096**

**7's and 10's correlation =
0.728742643102304**

**7's and 11's correlation =
0.7287741252833074**

**7's and 12's correlation =
0.02565745755238038**

**7's and 13's correlation =
0.9999226473523144**

8's length = 114500

**8's and 0's correlation =
0.24381883966008866**

**8's and 1's correlation =
0.2297087325927698**

**8's and 2's correlation =
0.2118414613304665**

**8's and 3's correlation =
0.13730480058144162**

**8's and 4's correlation =
0.2549928310776884**

**8's and 5's correlation =
0.25021587761855013**

**8's and 6's correlation =
0.432295999512138**

**8's and 7's correlation =
0.25533398762723225**

8's and 8's correlation = 1.0

**8's and 9's correlation =
0.20454939624011453**

**8's and 10's correlation =
0.20529547164090545**

**8's and 11's correlation =
0.20530516088160444**

**8's and 12's correlation =
0.16042527485452376**

**8's and 13's correlation =
0.2549928310776748**

9's length = 114500

**9's and 0's correlation =
0.7354900112059372**

**9's and 1's correlation =
0.8521291864595196**

**9's and 2's correlation =
0.5235056016550084**

9's and 3's correlation =
0.33846395553037534

9's and 4's correlation =
0.7013680355188174

9's and 5's correlation =
0.485065373018528

9's and 6's correlation =
0.3036370138959999

9's and 7's correlation =
0.7008484876139096

9's and 8's correlation =
0.20454939624011453

9's and 9's correlation = 1.0

9's and 10's correlation =
0.8325604036616353

9's and 11's correlation =
0.8325879679704116

9's and 12's correlation = -
0.04525257876455578

9's and 13's correlation =
0.7013680355188164

10's length = 114500

10's and 0's correlation =
0.7135217393919321

10's and 1's correlation =
0.8522537314098902

10's and 2's correlation =
0.48930971077683827

10's and 3's correlation =
0.31258412526685014

10's and 4's correlation =
0.7295944207124754

10's and 5's correlation =
0.5190464875671741

10's and 6's correlation =
0.2616999572846249

10's and 7's correlation =
0.728742643102304

10's and 8's correlation =
0.20529547164090545

10's and 9's correlation =
0.8325604036616353

10's and 10's correlation = 1.0

10's and 11's correlation =
0.9999999830462999

10's and 12's correlation = -
0.039916218021305745

10's and 13's correlation =
0.7295944207124442

11's length = 114500

11's and 0's correlation =
0.7135485667864886

11's and 1's correlation =
0.8522828891773374

11's and 2's correlation =
0.48933020212370965

11's and 3's correlation =
0.3125980942290544

11's and 4's correlation =
0.7296259387936098

11's and 5's correlation =
0.5190690537708437

11's and 6's correlation =
0.26171654081197665

11's and 7's correlation =
0.7287741252833074

11's and 8's correlation =
0.20530516088160444

11's and 9's correlation =
0.8325879679704116

11's and 10's correlation =
0.9999999830462999

11's and 11's correlation = 1.0

11's and 12's correlation = -
0.039915286778664766

11's and 13's correlation =
0.7296259387935831

12's length = 114500

12's and 0's correlation =
0.008790212029792572

12's and 1's correlation =
0.005096786738192926

12's and 2's correlation =
0.009948305167260505

12's and 3's correlation =
0.012260137779353216

12's and 4's correlation =
0.02575022048542133

12's and 5's correlation =
0.11218643011940693

12's and 6's correlation =
0.4986983537239209

12's and 7's correlation =
0.02565745755238038

12's and 8's correlation =
0.16042527485452376

12's and 9's correlation = -
0.04525257876455578

12's and 10's correlation = -
0.039916218021305745

12's and 11's correlation = -
0.039915286778664766

12's and 12's correlation = 1.0

12's and 13's correlation =
0.025750220485417558

13's length = 114500

13's and 0's correlation =
0.8338347115938979

13's and 1's correlation =
0.7431954909272207

13's and 2's correlation =
0.7552308851441641

13's and 3's correlation =
0.5162014351327503

13's and 4's correlation =
0.9999999999999832

13's and 5's correlation =
0.7646768460411272

13's and 6's correlation =
0.5477385388135823

13's and 7's correlation =
0.9999226473523144

13's and 8's correlation =
0.2549928310776748

13's and 9's correlation =
0.7013680355188164

13's and 10's correlation =
0.7295944207124442

13's and 11's correlation = 0.7296259387935831

13's and 12's correlation = 0.025750220485417558

13's and 13's correlation = 1.0

correlation>0.80:

highly correlated=14

0's and 1's correlation = 0.8596093075827006

0 and 1

0's and 2's correlation = 0.9287268054538813

0 and 2

0's and 4's correlation = 0.8338347115939062

0 and 4

0's and 7's correlation = 0.8338913168774763

0 and 7

0's and 13's correlation = 0.8338347115938979

0 and 13

1's and 0's correlation = 0.8596093075827006

1 and 0

1's and 9's correlation = 0.8521291864595196

1 and 9

1's and 10's correlation = 0.8522537314098902

1 and 10

1's and 11's correlation = 0.8522828891773374

1 and 11

2's and 0's correlation = 0.9287268054538813

2 and 0

4's and 0's correlation = 0.8338347115939062

4 and 0

4's and 7's correlation = 0.9999226473523405

4 and 7

4's and 13's correlation = 0.9999999999999832

4 and 13

7's and 0's correlation = 0.8338913168774763

7 and 0

7's and 4's correlation = 0.9999226473523405

7 and 4

7's and 13's correlation = 0.9999226473523144

7 and 13

9's and 1's correlation = 0.8521291864595196

9 and 1

9's and 10's correlation = 0.8325604036616353

9 and 10

9's and 11's correlation = 0.8325879679704116

9 and 11

10's and 1's correlation = 0.8522537314098902

10 and 1

10's and 9's correlation = 0.8325604036616353

10 and 9

10's and 11's correlation = 0.9999999830462999

10 and 11

11's and 1's correlation = 0.8522828891773374

11 and 1

11's and 9's correlation = 0.8325879679704116

11 and 9

11's and 10's correlation = 0.9999999830462999

11 and 10

13's and 0's correlation = 0.8338347115938979

13 and 0

13's and 4's correlation = 0.9999999999999832

13 and 4

13's and 7's correlation = 0.9999226473523144

13 and 7

highly correlated=14

mean time of 0=0.00017748816044570057 seconds

mean time of 1=3.456215671056223e-05 seconds

mean time of 2=6.405536784875861e-05 seconds

mean time of 3=0.0014040285843428565 seconds

mean time of 4=0.002664216845316658 seconds

mean time of 5=0.033633517073752055 seconds

mean time of 6=0.0008454355089945564 seconds

mean time of 7=0.002205266598530732 seconds

mean time of 8=0.0013054841470510159 seconds

mean time of 9=0.0013140466015411777 seconds

mean time of 10=0.0026050170956740735 seconds

mean time of 11=0.0017129468084943348 seconds

mean time of 12=0.0004994256007098735 seconds

mean time of 13=0.002445021883369013 seconds

time needed = 227.25145173072815 seconds

458.0

>>>

Xin>Xout for expeiment-1:

0's length = 288500

0's and 0's correlation = 1.0

0's and 1's correlation = 0.8390663962265779

0's and 2's correlation = 0.9147738017026255

0's and 3's correlation = 0.6322656997163169

0's and 4's correlation = 0.8185979618281192

0's and 5's correlation = 0.5894086008893837

0's and 6's correlation = 0.5669825589347198

0's and 7's correlation = 0.8184929344412227

0's and 8's correlation = 0.2634116632761583

0's and 9's correlation = 0.659551774527862

0's and 10's correlation = 0.6393531505190782

0's and 11's correlation = 0.63938472603325

0's and 12's correlation = 0.05670828657966915

0's and 13's correlation = 0.8185979618281971

1's length = 288500

1's and 0's correlation = 0.8390663962265779

1's and 1's correlation = 1.0

1's and 2's correlation = 0.5477864829051964

1's and 3's correlation = 0.3920966371387206

1's and 4's correlation = 0.7128329146365948

1's and 5's correlation = 0.5095961911000315

1's and 6's correlation = 0.3333992307971425

1's and 7's correlation = 0.7122124719546923

1's and 8's correlation = 0.23405364664728254

1's and 9's correlation = 0.7937660695814224

1's and 10's correlation = 0.798384764895308

1's and 11's correlation = 0.7984202518271738

1's and 12's correlation = 0.040014458498570375

1's and 13's correlation = 0.7128329146366604

2's length = 288500

2's and 0's correlation = 0.9147738017026255

2's and 1's correlation = 0.5477864829051964

2's and 2's correlation = 1.0

2's and 3's correlation = 0.6811605087638148

2's and 4's correlation = 0.7295444378482847

2's and 5's correlation = 0.5280052521461968

2's and 6's correlation = 0.6243523649241545

2's and 7's correlation = 0.7298436318213959

2's and 8's correlation = 0.23128391674730125

2's and 9's correlation = 0.4248636182069965

2's and 10's correlation = 0.3903721978364477

2's and 11's correlation = 0.39039440459123687

2's and 12's correlation = 0.057494513883585736

2's and 13's correlation = 0.7295444378483495

3's length = 288500

3's and 0's correlation = 0.6322656997163169

3's and 1's correlation = 0.3920966371387206

3's and 2's correlation = 0.6811605087638148

3's and 3's correlation = 1.0

3's and 4's correlation = 0.4668714412619237

3's and 5's correlation = 0.30085559693164615

3's and 6's correlation = 0.38238439655120177

3's and 7's correlation = 0.46729141103362015

3's and 8's correlation = 0.1416804492471803

3's and 9's correlation = 0.2581067172802274

3's and 10's correlation = 0.23291805428823006

3's and 11's correlation = 0.2329319229009685

3's and 12's correlation = 0.04404065130380544

3's and 13's correlation = 0.4668714412619255

4's length = 288500

4's and 0's correlation = 0.8185979618281192

4's and 1's correlation = 0.7128329146365948

4's and 2's correlation = 0.7295444378482847

4's and 3's correlation = 0.4668714412619237

4's and 4's correlation = 1.0

4's and 5's correlation = 0.833326621746841

4's and 6's correlation = 0.547114814071748

4's and 7's correlation = 0.9999482326098849

4's and 8's correlation = 0.2573603026281449

4's and 9's correlation = 0.633095450431711

4's and 10's correlation = 0.6560656648739613

4's and 11's correlation = 0.6561021067905614

4's and 12's correlation = 0.07367575780072938

4's and 13's correlation = 1.0000000000000475

5's length = 288500

5's and 0's correlation = 0.5894086008893837

5's and 1's correlation = 0.5095961911000315

5's and 2's correlation = 0.5280052521461968

5's and 3's correlation = 0.30085559693164615

5's and 4's correlation = 0.833326621746841

5's and 5's correlation = 1.0

5's and 6's correlation = 0.5704490132093213

5's and 7's correlation = 0.8342333132586572

5's and 8's correlation = 0.25327332971749583

5's and 9's correlation = 0.5016650822648501

5's and 10's correlation = 0.5225227055805296

5's and 11's correlation = 0.5225521796365189

5's and 12's correlation = 0.14823359557543128

5's and 13's correlation = 0.8333266217468424

6's length = 288500

6's and 0's correlation = 0.5669825589347198

6's and 1's correlation = 0.3333992307971425

6's and 2's correlation = 0.6243523649241545

6's and 3's correlation = 0.38238439655120177

6's and 4's correlation = 0.547114814071748

6's and 5's correlation = 0.5704490132093213

6's and 6's correlation = 1.0

6's and 7's correlation = 0.547670957589012

6's and 8's correlation = 0.40325476273120436

6's and 9's correlation = 0.23834186354802206

6's and 10's correlation = 0.19661559381642826

6's and 11's correlation = 0.1966316498878389

6's and 12's correlation = 0.5334734157371108

6's and 13's correlation = 0.5471148140717857

7's length = 288500

7's and 0's correlation = 0.8184929344412227

7's and 1's correlation = 0.7122124719546923

7's and 2's correlation = 0.7298436318213959

7's and 3's correlation = 0.46729141103362015

7's and 4's correlation = 0.9999482326098849

7's and 5's correlation = 0.8342333132586572

7's and 6's correlation = 0.547670957589012

7's and 7's correlation = 1.0

7's and 8's correlation = 0.2575294264033244

7's and 9's correlation = 0.6327793398480219

7's and 10's correlation = 0.6555010821540275

7's and 11's correlation = 0.6555374984833363

7's and 12's correlation = 0.07366068338466625

7's and 13's correlation = 0.9999482326099395

8's length = 288500

8's and 0's correlation = 0.2634116632761583

8's and 1's correlation = 0.23405364664728254

8's and 2's correlation = 0.23128391674730125

8's and 3's correlation = 0.1416804492471803

8's and 4's correlation = 0.2573603026281449

8's and 5's correlation = 0.25327332971749583

8's and 6's correlation = 0.40325476273120436

8's and 7's correlation = 0.2575294264033244

8's and 8's correlation = 1.0

8's and 9's correlation = 0.20101157939827746

8's and 10's correlation = 0.20170592837751172

8's and 11's correlation = 0.20171705474527596

8's and 12's correlation = 0.18271481381746846

8's and 13's correlation = 0.2573603026281402

9's length = 288500

9's and 0's correlation = 0.659551774527862

9's and 1's correlation = 0.7937660695814224

9's and 2's correlation = 0.4248636182069965

9's and 3's correlation = 0.2581067172802274

9's and 4's correlation = 0.633095450431711

9's and 5's correlation = 0.5016650822648501

9's and 6's correlation = 0.23834186354802206

9's and 7's correlation = 0.6327793398480219

9's and 8's correlation = 0.20101157939827746

9's and 9's correlation = 1.0

9's and 10's correlation = 0.7841166416990891

9's and 11's correlation = 0.7841485331650985

9's and 12's correlation = -0.025236052798665854

9's and 13's correlation = 0.6330954504317289

10's length = 288500

10's and 0's correlation = 0.6393531505190782

10's and 1's correlation = 0.798384764895308

10's and 2's correlation = 0.3903721978364477

10's and 3's correlation = 0.23291805428823006

10's and 4's correlation = 0.6560656648739613

10's and 5's correlation = 0.5225227055805296

10's and 6's correlation = 0.19661559381642826

10's and 7's correlation = 0.6555010821540275

10's and 8's correlation = 0.20170592837751172

10's and 9's correlation = 0.7841166416990891

10's and 10's correlation = 1.0

10's and 11's correlation = 0.9999999818017081

10's and 12's correlation = -0.023115784486764886

10's and 13's correlation = 0.6560656648739756

11's length = 288500

11's and 0's correlation = 0.63938472603325

11's and 1's correlation = 0.7984202518271738

11's and 2's correlation = 0.39039440459123687

11's and 3's correlation = 0.2329319229009685

11's and 4's correlation = 0.6561021067905614

11's and 5's correlation = 0.5225521796365189

11's and 6's correlation = 0.1966316498878389

11's and 7's correlation = 0.6555374984833363

11's and 8's correlation = 0.20171705474527596

11's and 9's correlation = 0.7841485331650985

11's and 10's correlation = 0.9999999818017081

11's and 11's correlation = 1.0

11's and 12's correlation = -0.023114952544179026

11's and 13's correlation = 0.6561021067905642

12's length = 288500

12's and 0's correlation = 0.05670828657966915

12's and 1's correlation = 0.040014458498570375

12's and 2's correlation = 0.057494513883585736

12's and 3's correlation = 0.04404065130380544

12's and 4's correlation = 0.07367575780072938

12's and 5's correlation = 0.14823359557543128

12's and 6's correlation = 0.5334734157371108

12's and 7's correlation = 0.07366068338466625

12's and 8's correlation = 0.18271481381746846

12's and 9's correlation = -0.025236052798665854

12's and 10's correlation = -0.023115784486764886

12's and 11's correlation = -0.023114952544179026

12's and 12's correlation = 1.0

12's and 13's correlation = 0.07367575780072612

13's length = 288500

13's and 0's correlation = 0.8185979618281971

13's and 1's correlation = 0.7128329146366604

13's and 2's correlation = 0.7295444378483495

13's and 3's correlation = 0.4668714412619255

13's and 4's correlation = 1.0000000000000475

13's and 5's correlation = 0.8333266217468424

13's and 6's correlation = 0.5471148140717857

13's and 7's correlation = 0.9999482326099395

13's and 8's correlation = 0.2573603026281402

13's and 9's correlation = 0.6330954504317289

13's and 10's correlation = 0.6560656648739756

13's and 11's correlation = 0.6561021067905642

13's and 12's correlation = 0.07367575780072612

13's and 13's correlation = 1.0

highly correlated=12

Correlation >= 0.80:

0's and 1's correlation = 0.8390663962265779

0 and 1

0's and 2's correlation = 0.9147738017026255

0 and 2

0's and 4's correlation = 0.8185979618281192

0 and 4

0's and 7's correlation = 0.8184929344412227

0 and 7

0's and 13's correlation = 0.8185979618281971

0 and 13

1's and 0's correlation = 0.8390663962265779

1 and 0

2's and 0's correlation = 0.9147738017026255

2 and 0

4's and 0's correlation = 0.8185979618281192

4 and 0

4's and 5's correlation = 0.833326621746841

4 and 5

4's and 7's correlation = 0.9999482326098849

4 and 7

4's and 13's correlation = 1.0000000000000475

4 and 13

5's and 4's correlation = 0.833326621746841

5 and 4

5's and 7's correlation = 0.8342333132586572

5 and 7

5's and 13's correlation = 0.8333266217468424

5 and 13

7's and 0's correlation = 0.8184929344412227

7 and 0

7's and 4's correlation = 0.9999482326098849

7 and 4

7's and 5's correlation = 0.8342333132586572

7 and 5

7's and 13's correlation = 0.9999482326099395

7 and 13

10's and 11's correlation = 0.9999999818017081

10 and 11

11's and 10's correlation = 0.9999999818017081

11 and 10

13's and 0's correlation = 0.8185979618281971

13 and 0

13's and 4's correlation = 1.0000000000000475

13 and 4

13's and 5's correlation = 0.8333266217468424

13 and 5

13's and 7's correlation = 0.9999482326099395

13 and 7

highly correlated=12

mean time of 0=0.00017162943630119338 seconds

mean time of 1=7.077383209968976e-05 seconds

mean time of 2=4.332850669450942e-05 seconds

mean time of 3=0.0012573178554118403 seconds

mean time of 4=0.0024998196696078136 seconds

mean time of 5=0.027362992693274645 seconds

mean time of 6=0.0005707766402325556 seconds

mean time of 7=0.0014703852258480608 seconds

mean time of 8=0.0011087839896798753 seconds

mean time of 9=0.001400956496002356 seconds

mean time of 10=0.0022174239365232258 seconds

mean time of 11=0.0016834723887451807 seconds

mean time of 12=0.0004595095404719149 seconds

mean time of 13=0.002079933102777967 seconds

time needed = 860.867561340332 seconds

1154.0

\>\>\>

Xin==Xout for expeiment-2:

0's length = 9250

0's and 0's correlation = 1.0

0's and 1's correlation = 0.8983225703532997

0's and 2's correlation = 0.8984887012512314

0's and 3's correlation = 0.4755074395437883

0's and 4's correlation = 0.8207863737951394

0's and 5's correlation = 0.5441307840592758

0's and 6's correlation = 0.47554897925939904

0's and 7's correlation = 0.8207486606534854

0's and 8's correlation = 0.24313484160330892

0's and 9's correlation = 0.7412214635702368

0's and 10's correlation = 0.7683014142091535

0's and 11's correlation = 0.7683173930279098

0's and 12's correlation = -0.01940017989193682

0's and 13's correlation = 0.8207863737951395

1's length = 9250

1's and 0's correlation = 0.8983225703532997

1's and 1's correlation = 1.0

1's and 2's correlation = 0.6142654306331966

1's and 3's correlation = 0.2889492767719749

1's and 4's correlation = 0.7304027289733569

1's and 5's correlation = 0.4924135113182388

1's and 6's correlation = 0.3219015279441156

1's and 7's correlation = 0.7299838879609865

1's and 8's correlation = 0.21509462969004212

1's and 9's correlation = 0.8251605964215658

1's and 10's correlation = 0.8711871157734054

1's and 11's correlation = 0.8712046020221651

1's and 12's correlation = -0.02718989149716661

1's and 13's correlation = 0.7304027289733561

2's length = 9250

2's and 0's correlation = 0.8984887012512314

2's and 1's correlation = 0.6142654306331966

2's and 2's correlation = 1.0

2's and 3's correlation = 0.5653409361982482

2's and 4's correlation = 0.7443901196372952

2's and 5's correlation = 0.48528960614880545

2's and 6's correlation = 0.5324887858682124

2's and 7's correlation = 0.7447408994585125

2's and 8's correlation = 0.22177022685131112

2's and 9's correlation = 0.5067977164200537

2's and 10's correlation = 0.509445543943282

2's and 11's correlation = 0.5094567710390399

2's and 12's correlation = -0.007676122147231019

2's and 13's correlation = 0.7443901196372954

3's length = 9250

3's and 0's correlation = 0.4755074395437883

3's and 1's correlation = 0.2889492767719749

3's and 2's correlation = 0.5653409361982482

3's and 3's correlation = 1.0

3's and 4's correlation = 0.39947388709911913

3's and 5's correlation = 0.2993489725438555

3's and 6's correlation = 0.31264033835599814

3's and 7's correlation = 0.40051388466626137

3's and 8's correlation = 0.1304839901607916

3's and 9's correlation = 0.2251095940174429

3's and 10's correlation = 0.21756843440040782

3's and 11's correlation = 0.21757463719063935

3's and 12's correlation = 0.004237567209226128

3's and 13's correlation = 0.399473887099119

4's length = 9250

4's and 0's correlation = 0.8207863737951394

4's and 1's correlation = 0.7304027289733569

4's and 2's correlation = 0.7443901196372952

4's and 3's correlation = 0.39947388709911913

4's and 4's correlation = 1.0

4's and 5's correlation = 0.7226684179626028

4's and 6's correlation = 0.5109514977988489

4's and 7's correlation = 0.9998994960216246

4's and 8's correlation = 0.25447571114648915

4's and 9's correlation = 0.7203494971199158

4's and 10's correlation = 0.7217539191083865

4's and 11's correlation = 0.7217730043948072

4's and 12's correlation = -0.01625267984391603

4's and 13's correlation = 0.9999999999999942

5's length = 9250

5's and 0's correlation = 0.5441307840592758

5's and 1's correlation = 0.4924135113182388

5's and 2's correlation = 0.48528960614880545

5's and 3's correlation = 0.2993489725438555

5's and 4's correlation = 0.7226684179626028

5's and 5's correlation = 1.0

5's and 6's correlation = 0.5201476370569535

5's and 7's correlation = 0.7245957463144048

5's and 8's correlation = 0.2547404504198152

5's and 9's correlation = 0.49881771447298673

5's and 10's correlation = 0.5181652502222186

5's and 11's correlation = 0.5181808213505003

5's and 12's correlation = 0.04645964426268188

5's and 13's correlation = 0.722668417962601

6's length = 9250

6's and 0's correlation = 0.47554897925939904

6's and 1's correlation = 0.3219015279441156

6's and 2's correlation = 0.5324887858682124

6's and 3's correlation = 0.31264033835599814

6's and 4's correlation = 0.5109514977988489

6's and 5's correlation = 0.5201476370569535

6's and 6's correlation = 1.0

6's and 7's correlation = 0.5120442965482072

6's and 8's correlation = 0.4339575756788049

6's and 9's correlation = 0.256897223142988

6's and 10's correlation = 0.22714753686334865

6's and 11's correlation = 0.22715791833085716

6's and 12's correlation = 0.449093592841482

6's and 13's correlation = 0.5109514977988517

7's length = 9250

7's and 0's correlation = 0.8207486606534854

7's and 1's correlation = 0.7299838879609865

7's and 2's correlation = 0.7447408994585125

7's and 3's correlation = 0.40051388466626137

7's and 4's correlation = 0.9998994960216246

7's and 5's correlation = 0.7245957463144048

7's and 6's correlation = 0.5120442965482072

7's and 7's correlation = 1.0

7's and 8's correlation = 0.25501934172997975

7's and 9's correlation = 0.7196347497117738

7's and 10's correlation = 0.7210503168847051

7's and 11's correlation = 0.721069404525829

7's and 12's correlation = -0.0163811909778073

7's and 13's correlation = 0.9998994960216191

8's length = 9250

8's and 0's correlation = 0.24313484160330892

8's and 1's correlation = 0.21509462969004212

8's and 2's correlation = 0.22177022685131112

8's and 3's correlation = 0.1304839901607916

8's and 4's correlation = 0.25447571114648915

8's and 5's correlation = 0.2547404504198152

8's and 6's correlation = 0.4339575756788049

8's and 7's correlation = 0.25501934172997975

8's and 8's correlation = 1.0

8's and 9's correlation = 0.20931057978786644

8's and 10's correlation = 0.20872214163523833

8's and 11's correlation = 0.2087264195682524

8's and 12's correlation = 0.12410069341371546

8's and 13's correlation = 0.2544757111464882

9's length = 9250

9's and 0's correlation = 0.7412214635702368

9's and 1's correlation = 0.8251605964215658

9's and 2's correlation = 0.5067977164200537

9's and 3's correlation = 0.2251095940174429

9's and 4's correlation = 0.7203494971199158

9's and 5's correlation = 0.49881771447298673

9's and 6's correlation = 0.256897223142988

9's and 7's correlation = 0.7196347497117738

9's and 8's correlation = 0.20931057978786644

9's and 9's correlation = 1.0

9's and 10's correlation = 0.8674279026692303

9's and 11's correlation = 0.8674445030890308

9's and 12's correlation = -0.07364058515832855

9's and 13's correlation = 0.7203494971199141

10's length = 9250

10's and 0's correlation = 0.7683014142091535

10's and 1's correlation = 0.8711871157734054

10's and 2's correlation = 0.509445543943282

10's and 3's correlation = 0.21756843440040782

10's and 4's correlation = 0.7217539191083865

10's and 5's correlation = 0.5181652502222186

10's and 6's correlation = 0.22714753686334865

10's and 7's correlation = 0.7210503168847051

10's and 8's correlation = 0.20872214163523833

10's and 9's correlation = 0.8674279026692303

10's and 10's correlation = 1.0

10's and 11's correlation = 0.9999999893855361

10's and 12's correlation = -0.06578414301683085

10's and 13's correlation = 0.7217539191083866

11's length = 9250

11's and 0's correlation = 0.7683173930279098

11's and 1's correlation = 0.8712046020221651

11's and 2's correlation = 0.5094567710390399

11's and 3's correlation = 0.21757463719063935

11's and 4's correlation = 0.7217730043948072

11's and 5's correlation = 0.5181808213505003

11's and 6's correlation = 0.22715791833085716

11's and 7's correlation = 0.721069404525829

11's and 8's correlation = 0.2087264195682524

11's and 9's correlation = 0.8674445030890308

11's and 10's correlation = 0.9999999893855361

11's and 11's correlation = 1.0

11's and 12's correlation = -0.06578357755321938

11's and 13's correlation = 0.721773004394807

12's length = 9250

12's and 0's correlation = -0.01940017989193682

12's and 1's correlation = -0.02718989149716661

12's and 2's correlation = -0.007676122147231019

12's and 3's correlation = 0.004237567209226128

12's and 4's correlation = -0.01625267984391603

12's and 5's correlation = 0.04645964426268188

12's and 6's correlation = 0.449093592841482

12's and 7's correlation = -0.0163811909778073

12's and 8's correlation = 0.12410069341371546

12's and 9's correlation = -0.07364058515832855

12's and 10's correlation = -0.06578414301683085

12's and 11's correlation = -0.06578357755321938

12's and 12's correlation = 1.0

12's and 13's correlation = -0.01625267984391691

13's length = 9250

13's and 0's correlation = 0.8207863737951395

13's and 1's correlation = 0.7304027289733561

13's and 2's correlation = 0.7443901196372954

13's and 3's correlation = 0.399473887099119

13's and 4's correlation = 0.9999999999999942

13's and 5's correlation = 0.722668417962601

13's and 6's correlation = 0.5109514977988517

13's and 7's correlation = 0.9998994960216191

13's and 8's correlation = 0.2544757111464882

13's and 9's correlation = 0.7203494971199141

13's and 10's correlation = 0.7217539191083866

13's and 11's correlation = 0.721773004394807

13's and 12's correlation = -0.01625267984391691

13's and 13's correlation = 1.0

highly correlated=14

Correlation >= 0.80:

0's and 1's correlation = 0.8983225703532997

0 and 1

0's and 2's correlation = 0.8984887012512314

0 and 2

0's and 4's correlation = 0.8207863737951394

0 and 4

0's and 7's correlation = 0.8207486606534854

0 and 7

0's and 13's correlation = 0.8207863737951395

0 and 13

1's and 0's correlation = 0.8983225703532997

1 and 0

1's and 9's correlation = 0.8251605964215658

1 and 9

1's and 10's correlation = 0.8711871157734054

1 and 10

1's and 11's correlation = 0.8712046020221651

1 and 11

2's and 0's correlation = 0.8984887012512314

2 and 0

4's and 0's correlation = 0.8207863737951394

4 and 0

4's and 7's correlation = 0.9998994960216246

4 and 7

4's and 13's correlation = 0.9999999999999942

4 and 13

7's and 0's correlation = 0.8207486606534854

7 and 0

7's and 4's correlation = 0.9998994960216246

7 and 4

7's and 13's correlation = 0.9998994960216191

7 and 13

9's and 1's correlation = 0.8251605964215658

9 and 1

9's and 10's correlation = 0.8674279026692303

9 and 10

9's and 11's correlation = 0.8674445030890308

9 and 11

10's and 1's correlation = 0.8711871157734054

10 and 1

10's and 9's correlation = 0.8674279026692303

10 and 9

10's and 11's correlation = 0.9999999893855361

10 and 11

11's and 1's correlation = 0.8712046020221651

11 and 1

11's and 9's correlation = 0.8674445030890308

11 and 9

11's and 10's correlation = 0.9999999893855361

11 and 10

13's and 0's correlation = 0.8207863737951395

13 and 0

13's and 4's correlation = 0.9999999999999942

13 and 4

13's and 7's correlation = 0.9998994960216191

13 and 7

highly correlated=14

mean time of 0=0.0 seconds

mean time of 1=0.00016882484023635451 seconds

mean time of 2=5.432077356286951e-06 seconds

mean time of 3=0.0015064574576712944 seconds

mean time of 4=0.003034979588276631 seconds

mean time of 5=0.035943492683204445 seconds

mean time of 6=0.0009645590911040435 seconds

mean time of 7=0.0024731146322714316 seconds

mean time of 8=0.000939838306323902 seconds

mean time of 9=0.0011490190351331555 seconds

mean time of
10=0.002227363070926151 seconds

mean time of
11=0.001238777830794051 seconds

mean time of
12=0.00046574618365313557 seconds

mean time of
13=0.004065779093149546 seconds

time needed = 13.947415113449097
seconds

37.0

>>>

Xin==Xout for expeiment-1:

0's length = 38000

0's and 0's correlation = 1.0

0's and 1's correlation =
0.8785688419449634

0's and 2's correlation =
0.8831646088178572

0's and 3's correlation =
0.5409919854143126

0's and 4's correlation =
0.8062330618948875

0's and 5's correlation =
0.5647320540956455

0's and 6's correlation =
0.5110077440842576

0's and 7's correlation =
0.8061505921272116

0's and 8's correlation =
0.2734289155489998

0's and 9's correlation =
0.6631151258498703

0's and 10's correlation =
0.6897080489105295

0's and 11's correlation =
0.6897275864057415

0's and 12's correlation =
0.05382208811579274

0's and 13's correlation =
0.8062330618948634

1's length = 38000

1's and 0's correlation =
0.8785688419449634

1's and 1's correlation = 1.0

1's and 2's correlation =
0.5518889488005764

1's and 3's correlation =
0.31909409449200143

1's and 4's correlation =
0.7100253215017112

1's and 5's correlation =
0.4970589082437103

1's and 6's correlation =
0.29107650381309924

1's and 7's correlation =
0.7095753829454244

1's and 8's correlation =
0.2259347909949178

1's and 9's correlation =
0.7658926978394185

1's and 10's correlation =
0.8170334176513153

1's and 11's correlation =
0.8170538334091154

1's and 12's correlation =
0.025916526071723633

1's and 13's correlation =
0.7100253215016855

2's length = 38000

2's and 0's correlation =
0.8831646088178572

2's and 1's correlation =
0.5518889488005764

2's and 2's correlation = 1.0

2's and 3's correlation =
0.6311924653878892

2's and 4's correlation =
0.7103727681146608

2's and 5's correlation =
0.4978646105670758

2's and 6's correlation =
0.606355832580545

2's and 7's correlation =
0.71067065742412

2's and 8's correlation =
0.25551816452486037

2's and 9's correlation =
0.4056217163463146

2's and 10's correlation =
0.4018280346496704

2's and 11's correlation =
0.4018420969606432

2's and 12's correlation =
0.06852098171300455

2's and 13's correlation =
0.7103727681146358

3's length = 38000

3's and 0's correlation =
0.5409919854143126

3's and 1's correlation =
0.31909409449200143

3's and 2's correlation =
0.6311924653878892

3's and 3's correlation = 1.0

3's and 4's correlation =
0.39549409864914986

3's and 5's correlation =
0.26584322273758587

3's and 6's correlation =
0.3233211112330106

3's and 7's correlation =
0.39571046151919514

3's and 8's correlation =
0.1357338428216385

3's and 9's correlation =
0.20144903579774212

3's and 10's correlation =
0.19610484974956402

3's and 11's correlation =
0.19611218460642552

3's and 12's correlation = 0.04601319267143134

3's and 13's correlation = 0.39549409864914814

4's length = 38000

4's and 0's correlation = 0.8062330618948875

4's and 1's correlation = 0.7100253215017112

4's and 2's correlation = 0.7103727681146608

4's and 3's correlation = 0.39549409864914986

4's and 4's correlation = 1.0

4's and 5's correlation = 0.8242154439696993

4's and 6's correlation = 0.5117224875756956

4's and 7's correlation = 0.9999500645195916

4's and 8's correlation = 0.25476074373645513

4's and 9's correlation = 0.6496908118652969

4's and 10's correlation = 0.6706214640908378

4's and 11's correlation = 0.6706434746586905

4's and 12's correlation = 0.06075942336495917

4's and 13's correlation = 0.9999999999999762

5's length = 38000

5's and 0's correlation = 0.5647320540956455

5's and 1's correlation = 0.4970589082437103

5's and 2's correlation = 0.4978646105670758

5's and 3's correlation = 0.26584322273758587

5's and 4's correlation = 0.8242154439696993

5's and 5's correlation = 1.0

5's and 6's correlation = 0.5135453160760748

5's and 7's correlation = 0.825149853161354

5's and 8's correlation = 0.23749997846561

5's and 9's correlation = 0.5146070716497282

5's and 10's correlation = 0.5325799453029392

5's and 11's correlation = 0.5325975404678057

5's and 12's correlation = 0.11729879005953554

5's and 13's correlation = 0.8242154439697056

6's length = 38000

6's and 0's correlation = 0.5110077440842576

6's and 1's correlation = 0.29107650381309924

6's and 2's correlation = 0.606355832580545

6's and 3's correlation = 0.3233211112330106

6's and 4's correlation = 0.5117224875756956

6's and 5's correlation = 0.5135453160760748

6's and 6's correlation = 1.0

6's and 7's correlation = 0.512286152411966

6's and 8's correlation = 0.3895367283808272

6's and 9's correlation = 0.19600907389490943

6's and 10's correlation = 0.1699139050330528

6's and 11's correlation = 0.1699243191683813

6's and 12's correlation = 0.5432211891047426

6's and 13's correlation = 0.5117224875756854

7's length = 38000

7's and 0's correlation = 0.8061505921272116

7's and 1's correlation = 0.7095753829454244

7's and 2's correlation = 0.71067065742412

7's and 3's correlation = 0.39571046151919514

7's and 4's correlation = 0.9999500645195916

7's and 5's correlation = 0.825149853161354

7's and 6's correlation = 0.512286152411966

7's and 7's correlation = 1.0

7's and 8's correlation = 0.25498721270761254

7's and 9's correlation = 0.6494629405923914

7's and 10's correlation = 0.6702493285128854

7's and 11's correlation = 0.6702713382852882

7's and 12's correlation = 0.06077289462321546

7's and 13's correlation = 0.9999500645195667

8's length = 38000

8's and 0's correlation = 0.2734289155489998

8's and 1's correlation = 0.2259347909949178

8's and 2's correlation = 0.25551816452486037

8's and 3's correlation = 0.1357338428216385

8's and 4's correlation = 0.25476074373645513

8's and 5's correlation = 0.23749997846561

8's and 6's correlation = 0.3895367283808272

8's and 7's correlation = 0.25498721270761254

8's and 8's correlation = 1.0

8's and 9's correlation = 0.20936957305213788

8's and 10's correlation = 0.21150205622498947

8's and 11's correlation = 0.2115098100238071

8's and 12's correlation = 0.16525063232755713

8's and 13's correlation = 0.2547607437364576

9's length = 38000

9's and 0's correlation = 0.6631151258498703

9's and 1's correlation = 0.7658926978394185

9's and 2's correlation = 0.4056217163463146

9's and 3's correlation = 0.20144903579774212

9's and 4's correlation = 0.6496908118652969

9's and 5's correlation = 0.5146070716497282

9's and 6's correlation = 0.19600907389490943

9's and 7's correlation = 0.6494629405923914

9's and 8's correlation = 0.20936957305213788

9's and 9's correlation = 1.0

9's and 10's correlation = 0.8172778823008967

9's and 11's correlation = 0.8172970501618629

9's and 12's correlation = -0.04053913881796531

9's and 13's correlation = 0.6496908118653

10's length = 38000

10's and 0's correlation = 0.6897080489105295

10's and 1's correlation = 0.8170334176513153

10's and 2's correlation = 0.4018280346496704

10's and 3's correlation = 0.19610484974956402

10's and 4's correlation = 0.6706214640908378

10's and 5's correlation = 0.5325799453029392

10's and 6's correlation = 0.1699139050330528

10's and 7's correlation = 0.6702493285128854

10's and 8's correlation = 0.21150205622498947

10's and 9's correlation = 0.8172778823008967

10's and 10's correlation = 1.0

10's and 11's correlation = 0.9999999873761463

10's and 12's correlation = -0.0352003954268718

10's and 13's correlation = 0.6706214640908379

11's length = 38000

11's and 0's correlation = 0.6897275864057415

11's and 1's correlation = 0.8170538334091154

11's and 2's correlation = 0.4018420969606432

11's and 3's correlation = 0.19611218460642552

11's and 4's correlation = 0.6706434746586905

11's and 5's correlation = 0.5325975404678057

11's and 6's correlation = 0.1699243191683813

11's and 7's correlation = 0.6702713382852882

11's and 8's correlation = 0.2115098100238071

11's and 9's correlation = 0.8172970501618629

11's and 10's correlation = 0.9999999873761463

11's and 11's correlation = 1.0

11's and 12's correlation = -0.03519940613575654

11's and 13's correlation = 0.6706434746586982

12's length = 38000

12's and 0's correlation = 0.05382208811579274

12's and 1's correlation = 0.025916526071723633

12's and 2's correlation = 0.06852098171300455

12's and 3's correlation = 0.04601319267143134

12's and 4's correlation = 0.06075942336495917

12's and 5's correlation = 0.11729879005953554

12's and 6's correlation = 0.5432211891047426

12's and 7's correlation = 0.06077289462321546

12's and 8's correlation = 0.16525063232755713

12's and 9's correlation = -0.04053913881796531

12's and 10's correlation = -0.0352003954268718

12's and 11's correlation = -0.03519940613575654

12's and 12's correlation = 1.0

12's and 13's correlation = 0.06075942336496298

13's length = 38000

13's and 0's correlation = 0.8062330618948634

13's and 1's correlation = 0.7100253215016855

13's and 2's correlation = 0.7103727681146358

13's and 3's correlation = 0.39549409864914814

13's and 4's correlation = 0.9999999999999762

13's and 5's correlation = 0.8242154439697056

13's and 6's correlation = 0.5117224875756854

13's and 7's correlation = 0.9999500645195667

13's and 8's correlation = 0.2547607437364576

13's and 9's correlation = 0.6496908118653

13's and 10's correlation = 0.6706214640908379

13's and 11's correlation = 0.6706434746586982

13's and 12's correlation = 0.06075942336496298

13's and 13's correlation = 1.0

highly correlated=16

Correlation >= 0.80:

0's and 1's correlation = 0.8785688419449634

0 and 1

0's and 2's correlation = 0.8831646088178572

0 and 2

0's and 4's correlation = 0.8062330618948875

0 and 4

0's and 7's correlation = 0.8061505921272116

0 and 7

0's and 13's correlation = 0.8062330618948634

0 and 13

1's and 0's correlation = 0.8785688419449634

1 and 0

1's and 10's correlation = 0.8170334176513153

1 and 10

1's and 11's correlation = 0.8170538334091154

1 and 11

2's and 0's correlation = 0.8831646088178572

2 and 0

4's and 0's correlation = 0.8062330618948875

4 and 0

4's and 5's correlation = 0.8242154439696993

4 and 5

4's and 7's correlation = 0.9999500645195916

4 and 7

4's and 13's correlation = 0.9999999999999762

4 and 13

5's and 4's correlation = 0.8242154439696993

5 and 4

5's and 7's correlation = 0.825149853161354

5 and 7

5's and 13's correlation = 0.8242154439697056

5 and 13

7's and 0's correlation = 0.8061505921272116

7 and 0

7's and 4's correlation = 0.9999500645195916

7 and 4

7's and 5's correlation = 0.825149853161354

7 and 5

7's and 13's correlation = 0.9999500645195667

7 and 13

9's and 10's correlation = 0.8172778823008967

9 and 10

9's and 11's correlation = 0.8172970501618629

9 and 11

10's and 1's correlation = 0.8170334176513153

10 and 1

10's and 9's correlation = 0.8172778823008967

10 and 9

10's and 11's correlation = 0.9999999873761463

10 and 11

11's and 1's correlation = 0.8170538334091154

11 and 1

11's and 9's correlation = 0.8172970501618629

11 and 9

11's and 10's correlation = 0.9999999873761463

11 and 10

13's and 0's correlation = 0.8062330618948634

13 and 0

13's and 4's correlation = 0.9999999999999762

13 and 4

13's and 5's correlation = 0.8242154439697056

13 and 5

13's and 7's correlation = 0.9999500645195667

13 and 7

highly correlated=16

mean time of 0=0.00010937734654075221 seconds

mean time of 1=6.301591270848325e-05 seconds

mean time of 2=6.298548296878212e-05 seconds

mean time of 3=0.0008633591626819811 seconds

mean time of 4=0.002011330817875109 seconds

mean time of 5=0.024849343927283035 seconds

mean time of 6=0.0008527605157149466 seconds

mean time of 7=0.0011935048981716759 seconds

mean time of 8=0.0009754259335367303 seconds

mean time of 9=0.0013898761648880808 seconds

mean time of 10=0.0019819764714491994 seconds

mean time of 11=0.001777493953704834 seconds

mean time of 12=0.0004953619680906597 seconds

mean time of 13=0.0018379625521208112 seconds

time needed = 45.71493744850159 seconds

152.0

>>>

Xin<Xout for expeiment-2:

0's length = 103500

0's and 0's correlation = 1.0

0's and 1's correlation = 0.9231453716030683

0's and 2's correlation = 0.8690473768836953

0's and 3's correlation = 0.43134409485199976

0's and 4's correlation = 0.8379051280415943

0's and 5's correlation = 0.5553652586660313

0's and 6's correlation = 0.4464534334645907

0's and 7's correlation = 0.8377679995891847

0's and 8's correlation = 0.2618792756588226

0's and 9's correlation = 0.786772040855471

0's and 10's correlation = 0.8156973175062979

0's and 11's correlation = 0.8157112652167582

0's and 12's correlation = -0.021713549055936986

0's and 13's correlation = 0.8379051280416122

1's length = 103500

1's and 0's correlation = 0.9231453716030683

1's and 1's correlation = 1.0

1's and 2's correlation = 0.6120580209964457

1's and 3's correlation = 0.24938182745298407

1's and 4's correlation = 0.7552499666450407

1's and 5's correlation = 0.502271083295952

1's and 6's correlation = 0.284901648193955

1's and 7's correlation = 0.754719984149404

1's and 8's correlation = 0.21058917887400005

1's and 9's correlation = 0.8433076462546485

1's and 10's correlation = 0.899818556616934

1's and 11's correlation = 0.8998323857790704

1's and 12's correlation = -0.030141371964334508

1's and 13's correlation = 0.755249666450045

2's length = 103500

2's and 0's correlation = 0.8690473768836953

2's and 1's correlation = 0.6120580209964457

2's and 2's correlation = 1.0

2's and 3's correlation = 0.5663557359039122

2's and 4's correlation = 0.751675205787565

2's and 5's correlation = 0.4960370727927047

2's and 6's correlation = 0.551727030055767

2's and 7's correlation = 0.7520747525613682

2's and 8's correlation = 0.26768803833181515

2's and 9's correlation = 0.5331778855010728

2's and 10's correlation = 0.5199561815462032

2's and 11's correlation = 0.519967075892179

2's and 12's correlation = -0.005877332812371175

2's and 13's correlation = 0.7516752057875707

3's length = 103500

3's and 0's correlation = 0.43134409485199976

3's and 1's correlation = 0.24938182745298407

3's and 2's correlation = 0.5663557359039122

3's and 3's correlation = 1.0

3's and 4's correlation = 0.3483698072104281

3's and 5's correlation = 0.25900932398564364

3's and 6's correlation = 0.29127443575738626

3's and 7's correlation = 0.34902444679094236

3's and 8's correlation = 0.13180172250279626

3's and 9's correlation = 0.21132403317591097

3's and 10's correlation = 0.1973642121889225

3's and 11's correlation = 0.19736901179328747

3's and 12's correlation = 0.008228169952732152

3's and 13's correlation = 0.34836980721042266

4's length = 103500

4's and 0's correlation = 0.8379051280415943

4's and 1's correlation = 0.7552496664500407

4's and 2's correlation = 0.751675205787565

4's and 3's correlation = 0.3483698072104281

4's and 4's correlation = 1.0

4's and 5's correlation = 0.7547717662848868

4's and 6's correlation = 0.471220646980326

4's and 7's correlation = 0.9999113257307997

4's and 8's correlation = 0.2280905397547555

4's and 9's correlation = 0.7525442521707375

4's and 10's correlation = 0.7311699067325965

4's and 11's correlation = 0.7311851072702269

4's and 12's correlation = -0.029398261702387574

4's and 13's correlation = 0.9999999999999553

5's length = 103500

5's and 0's correlation = 0.5553652586660313

5's and 1's correlation = 0.502271083295952

5's and 2's correlation = 0.4960370727927047

5's and 3's correlation = 0.25900932398564364

5's and 4's correlation = 0.7547717662848868

5's and 5's correlation = 1.0

5's and 6's correlation = 0.4780830421894251

5's and 7's correlation = 0.7565164334313834

5's and 8's correlation = 0.20266088121208706

5's and 9's correlation = 0.5301479089732305

5's and 10's correlation = 0.5269094220452439

5's and 11's correlation = 0.5269212461347718

5's and 12's correlation = 0.03891435486984336

5's and 13's correlation = 0.7547717662848843

6's length = 103500

6's and 0's correlation = 0.4464534334645907

6's and 1's correlation = 0.284901648193955

6's and 2's correlation = 0.551727030055767

6's and 3's correlation = 0.29127443575738626

6's and 4's correlation = 0.471220646980326

6's and 5's correlation = 0.4780830421894251

6's and 6's correlation = 1.0

6's and 7's correlation = 0.47205694234124945

6's and 8's correlation = 0.4100715134019991

6's and 9's correlation = 0.2515562907930723

6's and 10's correlation = 0.1995305852959747

6's and 11's correlation = 0.19953943178758546

6's and 12's correlation = 0.47562147696228296

6's and 13's correlation = 0.4712206469803224

7's length = 103500

7's and 0's correlation = 0.8377679995891847

7's and 1's correlation = 0.754719984149404

7's and 2's correlation = 0.7520747525613682

7's and 3's correlation = 0.34902444679094236

7's and 4's correlation = 0.9999113257307997

7's and 5's correlation = 0.7565164334313834

7's and 6's correlation = 0.47205694234124945

7's and 7's correlation = 1.0

7's and 8's correlation = 0.22835820947275434

7's and 9's correlation = 0.7518734086345078

7's and 10's correlation = 0.7305931110438253

7's and 11's correlation = 0.7306083064919477

7's and 12's correlation = - 0.029501199091895944

7's and 13's correlation = 0.9999113257307617

8's length = 103500

8's and 0's correlation = 0.2618792756588226

8's and 1's correlation = 0.21058917887400005

8's and 2's correlation = 0.26768803833181515

8's and 3's correlation = 0.13180172250279626

8's and 4's correlation = 0.2280905397547555

8's and 5's correlation = 0.20266088121208706

8's and 6's correlation = 0.4100715134019991

8's and 7's correlation = 0.22835820947275434

8's and 8's correlation = 1.0

8's and 9's correlation = 0.20700051723939292

8's and 10's correlation = 0.1961595642513653

8's and 11's correlation = 0.1961645827586736

8's and 12's correlation = 0.12260753579916686

8's and 13's correlation = 0.22809053975474536

9's length = 103500

9's and 0's correlation = 0.786772040855471

9's and 1's correlation = 0.8433076462546485

9's and 2's correlation = 0.5331778855010728

9's and 3's correlation = 0.21132403317591097

9's and 4's correlation = 0.7525442521707375

9's and 5's correlation = 0.5301479089732305

9's and 6's correlation = 0.2515562907930723

9's and 7's correlation = 0.7518734086345078

9's and 8's correlation = 0.20700051723939292

9's and 9's correlation = 1.0

9's and 10's correlation = 0.8914162809338408

9's and 11's correlation = 0.8914296042664086

9's and 12's correlation = - 0.07679849771720022

9's and 13's correlation = 0.7525442521707171

10's length = 103500

10's and 0's correlation = 0.8156973175062979

10's and 1's correlation = 0.899818556616934

10's and 2's correlation = 0.5199561815462032

10's and 3's correlation = 0.1973642121889225

10's and 4's correlation = 0.7311699067325965

10's and 5's correlation = 0.5269094220452439

10's and 6's correlation = 0.1995305852959747

10's and 7's correlation = 0.7305931110438253

10's and 8's correlation = 0.1961595642513653

10's and 9's correlation = 0.8914162809338408

10's and 10's correlation = 1.0

10's and 11's correlation = 0.9999999924276248

10's and 12's correlation = - 0.07549694580000481

10's and 13's correlation = 0.7311699067325821

11's length = 103500

11's and 0's correlation = 0.8157112652167582

11's and 1's correlation = 0.8998323857790704

11's and 2's correlation = 0.519967075892179

11's and 3's correlation = 0.19736901179328747

11's and 4's correlation = 0.7311851072702269

11's and 5's correlation = 0.5269212461347718

11's and 6's correlation = 0.19953943178758546

11's and 7's correlation = 0.7306083064919477

11's and 8's correlation = 0.1961645827586736

11's and 9's correlation = 0.8914296042664086

11's and 10's correlation = 0.9999999924276248

11's and 11's correlation = 1.0

11's and 12's correlation = - 0.07549616270472109

11's and 13's correlation = 0.7311851072702241

12's length = 103500

12's and 0's correlation = -0.021713549055936986

12's and 1's correlation = -0.030141371964334508

12's and 2's correlation = -0.0058773328123711175

12's and 3's correlation = 0.008228169952732152

12's and 4's correlation = -0.029398261702387574

12's and 5's correlation = 0.03891435486984336

12's and 6's correlation = 0.47562147696228296

12's and 7's correlation = -0.029501199091895944

12's and 8's correlation = 0.12260753579916686

12's and 9's correlation = -0.07679849771720022

12's and 10's correlation = -0.07549694580000481

12's and 11's correlation = -0.07549616270472109

12's and 12's correlation = 1.0

12's and 13's correlation = -0.029398261702384913

13's length = 103500

13's and 0's correlation = 0.8379051280416122

13's and 1's correlation = 0.755249666450045

13's and 2's correlation = 0.7516752057875707

13's and 3's correlation = 0.34836980721042266

13's and 4's correlation = 0.9999999999999553

13's and 5's correlation = 0.7547717662848843

13's and 6's correlation = 0.4712206469803224

13's and 7's correlation = 0.9999113257307617

13's and 8's correlation = 0.22809053975474536

13's and 9's correlation = 0.7525442521707171

13's and 10's correlation = 0.7311699067325821

13's and 11's correlation = 0.7311851072702241

13's and 12's correlation = -0.029398261702384913

13's and 13's correlation = 1.0

highly correlated=16

Correlation >= 0.80:

0's and 1's correlation = 0.9231453716030683

0 and 1

0's and 2's correlation = 0.8690473768836953

0 and 2

0's and 4's correlation = 0.8379051280415943

0 and 4

0's and 7's correlation = 0.8377679995891847

0 and 7

0's and 10's correlation = 0.8156973175062979

0 and 10

0's and 11's correlation = 0.8157112652167582

0 and 11

0's and 13's correlation = 0.8379051280416122

0 and 13

1's and 0's correlation = 0.9231453716030683

1 and 0

1's and 9's correlation = 0.8433076462546485

1 and 9

1's and 10's correlation = 0.899818556616934

1 and 10

1's and 11's correlation = 0.8998323857790704

1 and 11

2's and 0's correlation = 0.8690473768836953

2 and 0

4's and 0's correlation = 0.8379051280415943

4 and 0

4's and 7's correlation = 0.9999113257307997

4 and 7

4's and 13's correlation = 0.9999999999999553

4 and 13

7's and 0's correlation = 0.8377679995891847

7 and 0

7's and 4's correlation = 0.9999113257307997

7 and 4

7's and 13's correlation = 0.9999113257307617

7 and 13

9's and 1's correlation = 0.8433076462546485

9 and 1

9's and 10's correlation = 0.8914162809338408

9 and 10

9's and 11's correlation = 0.8914296042664086

9 and 11

10's and 0's correlation = 0.8156973175062979

10 and 0

10's and 1's correlation = 0.899818556616934

10 and 1

10's and 9's correlation = 0.8914162809338408

10 and 9

10's and 11's correlation = 0.9999999924276248

10 and 11

11's and 0's correlation = 0.8157112652167582

11 and 0

11's and 1's correlation = 0.8998323857790704

11 and 1

11's and 9's correlation = 0.8914296042664086

11 and 9

11's and 10's correlation = 0.9999999924276248

11 and 10

13's and 0's correlation = 0.8379051280416122

13 and 0

13's and 4's correlation = 0.9999999999999553

13 and 4

13's and 7's correlation = 0.9999113257307617

13 and 7

highly correlated=16

mean time of 0=0.0001056263412254444 seconds

mean time of 1=9.81071720952573e-05 seconds

mean time of 2=6.0368275296860844e-05 seconds

mean time of 3=0.0011243873172336154 seconds

mean time of 4=0.0027998919648248794 seconds

mean time of 5=0.03576384350873422 seconds

mean time of 6=0.0006793895205437849 seconds

mean time of 7=0.0021592879640883293 seconds

mean time of 8=0.0010876007126149347 seconds

mean time of 9=0.0014576763346575308 seconds

mean time of 10=0.00237158991864338 seconds

mean time of 11=0.0018732598438355081 seconds

mean time of 12=0.0004907443327604285 seconds

mean time of 13=0.003149866021197775 seconds

time needed = 196.59213280677795 seconds

414.0

>>>

Xin<Xout for expeiment-1:

0's length = 262000

0's and 0's correlation = 1.0

0's and 1's correlation = 0.9065451369765827

0's and 2's correlation = 0.8510748785538726

0's and 3's correlation = 0.4602149154980338

0's and 4's correlation = 0.8243171978164464

0's and 5's correlation = 0.5863060713116578

0's and 6's correlation = 0.4780709765287666

0's and 7's correlation = 0.8240845587069078

0's and 8's correlation = 0.2784508794194941

0's and 9's correlation = 0.7078036184750276

0's and 10's correlation = 0.7393558452111215

0's and 11's correlation = 0.7393725190547823

0's and 12's correlation = 0.04344558803620324

0's and 13's correlation = 0.8243171978165134

1's length = 262000

1's and 0's correlation = 0.9065451369765827

1's and 1's correlation = 1.0

1's and 2's correlation = 0.5499119121926229

1's and 3's correlation = 0.2603196579196929

1's and 4's correlation = 0.7281089193493864

1's and 5's correlation = 0.5168884898669365

1's and 6's correlation = 0.2693231504016418

1's and 7's correlation = 0.7275537626365052

1's and 8's correlation = 0.2197278170412693

1's and 9's correlation = 0.7852557238524535

1's and 10's correlation = 0.840541637901401

1's and 11's correlation = 0.8405587326765516

1's and 12's correlation = 0.014355219935634643

1's and 13's correlation = 0.7281089193494632

2's length = 262000

2's and 0's correlation = 0.8510748785538726

2's and 1's correlation = 0.5499119121926229

2's and 2's correlation = 1.0

2's and 3's correlation = 0.5868214818128975

2's and 4's correlation = 0.7254027271561553

2's and 5's correlation = 0.5171811081988671

2's and 6's correlation = 0.6109540085413644

2's and 7's correlation = 0.7256329436540675

2's and 8's correlation = 0.2776573570625902

2's and 9's correlation = 0.4237758473698972

2's and 10's correlation = 0.4174399913439698

2's and 11's correlation = 0.4174517202068184

2's and 12's correlation = 0.06810946978630691

2's and 13's correlation = 0.7254027271562569

3's length = 262000

3's and 0's correlation = 0.4602149154980338

3's and 1's correlation = 0.2603196579196929

3's and 2's correlation = 0.5868214818128975

3's and 3's correlation = 1.0

3's and 4's correlation = 0.36798582008060127

3's and 5's correlation = 0.2720896485712662

3's and 6's correlation = 0.3226704560289351

3's and 7's correlation = 0.3683845339981343

3's and 8's correlation = 0.1481876800245074

3's and 9's correlation = 0.18630885758870255

3's and 10's correlation = 0.17404051438302243

3's and 11's correlation = 0.1740461942923133

3's and 12's correlation = 0.050553342911345264

3's and 13's correlation = 0.367985820080608

4's length = 262000

4's and 0's correlation = 0.8243171978164464

4's and 1's correlation = 0.7281089193493864

4's and 2's correlation = 0.7254027271561553

4's and 3's correlation = 0.36798582008060127

4's and 4's correlation = 1.0

4's and 5's correlation = 0.8270995967055925

4's and 6's correlation = 0.4842698227290932

4's and 7's correlation = 0.999945849718949

4's and 8's correlation = 0.23308911330530682

4's and 9's correlation = 0.677427071863102

4's and 10's correlation = 0.6741889329514559

4's and 11's correlation = 0.6742067272526342

4's and 12's correlation = 0.043208964245648816

4's and 13's correlation = 1.000000000000023

5's length = 262000

5's and 0's correlation = 0.5863060713116578

5's and 1's correlation = 0.5168884898669365

5's and 2's correlation = 0.5171811081988671

5's and 3's correlation = 0.2720896485712662

5's and 4's correlation = 0.8270995967055925

5's and 5's correlation = 1.0

5's and 6's correlation = 0.4952449157723934

5's and 7's correlation = 0.8282068708499151

5's and 8's correlation = 0.2160184600431825

5's and 9's correlation = 0.5514511011929203

5's and 10's correlation = 0.5463242889969687

5's and 11's correlation = 0.5463385239249066

5's and 12's correlation = 0.10737909144284505

5's and 13's correlation = 0.8270995967055884

6's length = 262000

6's and 0's correlation = 0.4780709765287666

6's and 1's correlation = 0.2693231504016418

6's and 2's correlation = 0.6109540085413644

6's and 3's correlation = 0.3226704560289351

6's and 4's correlation = 0.4842698227290932

6's and 5's correlation = 0.4952449157723934

6's and 6's correlation = 1.0

6's and 7's correlation = 0.4848271506446505

6's and 8's correlation = 0.37587674438882357

6's and 9's correlation = 0.18919985129112965

6's and 10's correlation = 0.1529787441639509

6's and 11's correlation = 0.15298699228038531

6's and 12's correlation = 0.5525920523433102

6's and 13's correlation = 0.48426982272911756

7's length = 262000

7's and 0's correlation = 0.8240845587069078

7's and 1's correlation = 0.7275537626365052

7's and 2's correlation = 0.7256329436540675

7's and 3's correlation = 0.3683845339981343

7's and 4's correlation = 0.999945849718949

7's and 5's correlation = 0.8282068708499151

7's and 6's correlation = 0.4848271506446505

7's and 7's correlation = 1.0

7's and 8's correlation = 0.23324005879556406

7's and 9's correlation = 0.6771403017065287

7's and 10's correlation = 0.6738358670739931

7's and 11's correlation = 0.6738536550099304

7's and 12's correlation = 0.043230311621055874

7's and 13's correlation = 0.9999458497190001

8's length = 262000

8's and 0's correlation = 0.2784508794194941

8's and 1's correlation = 0.2197278170412693

8's and 2's correlation = 0.2776573570625902

8's and 3's correlation = 0.1481876800245074

8's and 4's correlation = 0.23308911330530682

8's and 5's correlation = 0.2160184600431825

8's and 6's correlation = 0.37587674438882357

8's and 7's correlation = 0.23324005879556406

8's and 8's correlation = 1.0

8's and 9's correlation = 0.20168097101150426

8's and 10's correlation = 0.20761030720197385

8's and 11's correlation = 0.2076155671957168

8's and 12's correlation = 0.16788080273651382

8's and 13's correlation = 0.23308911330529977

9's length = 262000

9's and 0's correlation = 0.7078036184750276

9's and 1's correlation = 0.7852557238524535

9's and 2's correlation = 0.4237758473698972

9's and 3's correlation = 0.18630885758870255

9's and 4's correlation = 0.677427071863102

9's and 5's correlation = 0.5514511011929203

9's and 6's correlation = 0.18919985129112965

9's and 7's correlation = 0.6771403017065287

9's and 8's correlation = 0.20168097101150426

9's and 9's correlation = 1.0

9's and 10's correlation = 0.8529946661711586

9's and 11's correlation = 0.8530098825220535

9's and 12's correlation = -0.046847952797674404

9's and 13's correlation = 0.6774270718631147

10's length = 262000

10's and 0's correlation = 0.7393558452111215

10's and 1's correlation = 0.840541637901401

10's and 2's correlation = 0.4174399913439698

10's and 3's correlation = 0.17404051438302243

10's and 4's correlation = 0.6741889329514559

10's and 5's correlation = 0.5463242889969687

10's and 6's correlation = 0.1529787441639509

10's and 7's correlation = 0.6738358670739931

10's and 8's correlation = 0.20761030720197385

10's and 9's correlation = 0.8529946661711586

10's and 10's correlation = 1.0

10's and 11's correlation = 0.9999999917991702

10's and 12's correlation = -0.04642318243852075

10's and 13's correlation =
0.6741889329514542

11's length = 262000

11's and 0's correlation =
0.7393725190547823

11's and 1's correlation =
0.8405587326765516

11's and 2's correlation =
0.4174517202068184

11's and 3's correlation =
0.1740461942923133

11's and 4's correlation =
0.6742067272526342

11's and 5's correlation =
0.5463385239249066

11's and 6's correlation =
0.15298699228038531

11's and 7's correlation =
0.6738536550099304

11's and 8's correlation =
0.2076155671957168

11's and 9's correlation =
0.8530098825220535

11's and 10's correlation =
0.9999999917991702

11's and 11's correlation = 1.0

11's and 12's correlation = -
0.04642256455577223

11's and 13's correlation =
0.6742067272526427

12's length = 262000

12's and 0's correlation =
0.04344558803620324

12's and 1's correlation =
0.014355219935634643

12's and 2's correlation =
0.06810946978630691

12's and 3's correlation =
0.050553342911345264

12's and 4's correlation =
0.043208964245648816

12's and 5's correlation =
0.10737909144284505

12's and 6's correlation =
0.5525920523433102

12's and 7's correlation =
0.043230311621055874

12's and 8's correlation =
0.16788080273651382

12's and 9's correlation = -
0.046847952797674404

12's and 10's correlation = -
0.04642318243852075

12's and 11's correlation = -
0.04642256455577223

12's and 12's correlation = 1.0

12's and 13's correlation =
0.04320896424564473

13's length = 262000

13's and 0's correlation =
0.8243171978165134

13's and 1's correlation =
0.7281089193494632

13's and 2's correlation =
0.7254027271562569

13's and 3's correlation =
0.367985820080608

13's and 4's correlation =
1.000000000000023

13's and 5's correlation =
0.8270995967055884

13's and 6's correlation =
0.48426982272911756

13's and 7's correlation =
0.9999458497190001

13's and 8's correlation =
0.23308911330529977

13's and 9's correlation =
0.6774270718631147

13's and 10's correlation =
0.6741889329514542

13's and 11's correlation =
0.6742067272526427

13's and 12's correlation =
0.04320896424564473

13's and 13's correlation = 1.0

highly correlated=16

Correlation >= 0.80:

0's and 1's correlation =
0.9065451369765827

0 and 1

0's and 2's correlation =
0.8510748785538726

0 and 2

0's and 4's correlation =
0.8243171978164464

0 and 4

0's and 7's correlation =
0.8240845587069078

0 and 7

0's and 13's correlation =
0.8243171978165134

0 and 13

1's and 0's correlation =
0.9065451369765827

1 and 0

1's and 10's correlation =
0.840541637901401

1 and 10

1's and 11's correlation =
0.8405587326765516

1 and 11

2's and 0's correlation =
0.8510748785538726

2 and 0

4's and 0's correlation =
0.8243171978164464

4 and 0

4's and 5's correlation =
0.8270995967055925

4 and 5

4's and 7's correlation =
0.999945849718949

4 and 7

4's and 13's correlation = 1.000000000000023

4 and 13

5's and 4's correlation = 0.8270995967055925

5 and 4

5's and 7's correlation = 0.8282068708499151

5 and 7

5's and 13's correlation = 0.8270995967055884

5 and 13

7's and 0's correlation = 0.8240845587069078

7 and 0

7's and 4's correlation = 0.999945849718949

7 and 4

7's and 5's correlation = 0.8282068708499151

7 and 5

7's and 13's correlation = 0.9999458497190001

7 and 13

9's and 10's correlation = 0.8529946661711586

9 and 10

9's and 11's correlation = 0.8530098825220535

9 and 11

10's and 1's correlation = 0.840541637901401

10 and 1

10's and 9's correlation = 0.8529946661711586

10 and 9

10's and 11's correlation = 0.9999999917991702

10 and 11

11's and 1's correlation = 0.8405587326765516

11 and 1

11's and 9's correlation = 0.8530098825220535

11 and 9

11's and 10's correlation = 0.9999999917991702

11 and 10

13's and 0's correlation = 0.8243171978165134

13 and 0

13's and 4's correlation = 1.000000000000023

13 and 4

13's and 5's correlation = 0.8270995967055884

13 and 5

13's and 7's correlation = 0.9999458497190001

13 and 7

highly correlated=16

mean time of 0=0.00013277430570762577 seconds

mean time of 1=6.852313762402716e-05 seconds

mean time of 2=6.321673174850813e-05 seconds

mean time of 3=0.0007944105690672197 seconds

mean time of 4=0.0023994008093389846 seconds

mean time of 5=0.028714100914147063 seconds

mean time of 6=0.0005959087655744479 seconds

mean time of 7=0.0017207371369572996 seconds

mean time of 8=0.001065961959707828 seconds

mean time of 9=0.0015000923444296568 seconds

mean time of 10=0.002374994936790175 seconds

mean time of 11=0.001988134129356792 seconds

mean time of 12=0.00043861087951951356 seconds

mean time of 13=0.0023594305260490824 seconds

time needed = 776.9058504104614 seconds

1048.0

>>>

Output for 100 nodes:

Xin>Xout for experiment-2:

0's length = 229000

0's and 0's correlation = 1.0

0's and 1's correlation = 0.8518546394196376

0's and 2's correlation = 0.9319914059475674

0's and 3's correlation = 0.5958879940339896

0's and 4's correlation = 0.8549306130421696

0's and 5's correlation = 0.5470088018721206

0's and 6's correlation = 0.47335927748473977

0's and 7's correlation = 0.8552274440756582

0's and 8's correlation = 0.17761334287033326

0's and 9's correlation = 0.7383444963120818

0's and 10's correlation = 0.7256020474087573

0's and 11's correlation = 0.7256663946960974

0's and 12's correlation = 0.00784389872879273

0's and 13's correlation = 0.8549306130421125

1's length = 229000

1's and 0's correlation = 0.8518546394196376

1's and 1's correlation = 1.0

1's and 2's correlation = 0.6040618624829415

1's and 3's correlation = 0.34889417736836315

1's and 4's correlation = 0.7676253013117896

1's and 5's correlation = 0.4825598674712847

1's and 6's correlation = 0.3295120127657318

1's and 7's correlation = 0.7670157455566347

1's and 8's correlation = 0.1714146087890376

1's and 9's correlation = 0.8551594364451163

1's and 10's correlation = 0.8755026132874467

1's and 11's correlation = 0.8755746554235715

1's and 12's correlation = 0.004368239337951021

1's and 13's correlation = 0.7676253013117524

2's length = 229000

2's and 0's correlation = 0.9319914059475674

2's and 1's correlation = 0.6040618624829415

2's and 2's correlation = 1.0

2's and 3's correlation = 0.6652016265194559

2's and 4's correlation = 0.7695567500659972

2's and 5's correlation = 0.49832787072947965

2's and 6's correlation = 0.4921855396917676

2's and 7's correlation = 0.7704302260872686

2's and 8's correlation = 0.1516143278191587

2's and 9's correlation = 0.5315910807974683

2's and 10's correlation = 0.49812474999984535

2's and 11's correlation = 0.49817279877004617

2's and 12's correlation = 0.008911586763503905

2's and 13's correlation = 0.7695567500659815

3's length = 229000

3's and 0's correlation = 0.5958879940339896

3's and 1's correlation = 0.34889417736836315

3's and 2's correlation = 0.6652016265194559

3's and 3's correlation = 1.0

3's and 4's correlation = 0.42858523394473225

3's and 5's correlation = 0.29932901953450963

3's and 6's correlation = 0.26861279282624073

3's and 7's correlation = 0.4298162682154485

3's and 8's correlation = 0.05515141690764778

3's and 9's correlation = 0.28876503013141624

3's and 10's correlation = 0.2600219953813525

3's and 11's correlation = 0.26004690879768083

3's and 12's correlation = 0.0009548938792259066

3's and 13's correlation = 0.4285852339447252

4's length = 229000

4's and 0's correlation = 0.8549306130421696

4's and 1's correlation = 0.7676253013117896

4's and 2's correlation = 0.7695567500659972

4's and 3's correlation = 0.42858523394473225

4's and 4's correlation = 1.0

4's and 5's correlation = 0.6935309086674802

4's and 6's correlation = 0.48241744880821785

4's and 7's correlation = 0.9999084496428656

4's and 8's correlation = 0.19118211222046966

4's and 9's correlation = 0.7240770085198142

4's and 10's correlation = 0.7455334290099586

4's and 11's correlation = 0.7456079088864922

4's and 12's correlation = 0.020146220541269598

4's and 13's correlation = 0.9999999999999879

5's length = 229000

5's and 0's correlation = 0.5470088018721206

5's and 1's correlation = 0.4825598674712847

5's and 2's correlation = 0.49832787072947965

5's and 3's correlation = 0.29932901953450963

5's and 4's correlation =
0.6935309086674802

5's and 5's correlation = 1.0

5's and 6's correlation =
0.5455075805756591

5's and 7's correlation =
0.6958335796295402

5's and 8's correlation =
0.20743623966807365

5's and 9's correlation =
0.47178910929302753

5's and 10's correlation =
0.5069819891980107

5's and 11's correlation =
0.5070359176487754

5's and 12's correlation =
0.09549083247089674

5's and 13's correlation =
0.6935309086674928

6's length = 229000

6's and 0's correlation =
0.47335927748473977

6's and 1's correlation =
0.3295120127657318

6's and 2's correlation =
0.4921855396917676

6's and 3's correlation =
0.26861279282624073

6's and 4's correlation =
0.48241744880821785

6's and 5's correlation =
0.5455075805756591

6's and 6's correlation = 1.0

6's and 7's correlation =
0.4839063157838656

6's and 8's correlation =
0.40776316219698283

6's and 9's correlation =
0.26669379450176156

6's and 10's correlation =
0.23651339928068815

6's and 11's correlation =
0.23654787532262583

6's and 12's correlation =
0.4949402377030478

6's and 13's correlation =
0.48241744880820664

7's length = 229000

7's and 0's correlation =
0.8552274440756582

7's and 1's correlation =
0.7670157455566347

7's and 2's correlation =
0.7704302260872686

7's and 3's correlation =
0.4298162682154485

7's and 4's correlation =
0.9999084496428656

7's and 5's correlation =
0.6958335796295402

7's and 6's correlation =
0.4839063157838656

7's and 7's correlation = 1.0

7's and 8's correlation =
0.19166487098184187

7's and 9's correlation =
0.723487071581795

7's and 10's correlation =
0.744689418478985

7's and 11's correlation =
0.7447638328451675

7's and 12's correlation =
0.020056921518281475

7's and 13's correlation =
0.9999084496428561

8's length = 229000

8's and 0's correlation =
0.17761334287033326

8's and 1's correlation =
0.1714146087890376

8's and 2's correlation =
0.1516143278191587

8's and 3's correlation =
0.05515141690764778

8's and 4's correlation =
0.19118211222046966

8's and 5's correlation =
0.20743623966807365

8's and 6's correlation =
0.40776316219698283

8's and 7's correlation =
0.19166487098184187

8's and 8's correlation = 1.0

8's and 9's correlation =
0.14685512621952296

8's and 10's correlation =
0.15166519259738245

8's and 11's correlation =
0.15168319454365203

8's and 12's correlation =
0.16868619894737508

8's and 13's correlation =
0.1911821122204665

9's length = 229000

9's and 0's correlation =
0.7383444963120818

9's and 1's correlation =
0.8551594364451163

9's and 2's correlation =
0.5315910807974683

9's and 3's correlation =
0.28876503013141624

9's and 4's correlation =
0.7240770085198142

9's and 5's correlation =
0.47178910929302753

9's and 6's correlation =
0.26669379450176156

9's and 7's correlation =
0.723487071581795

9's and 8's correlation =
0.14685512621952296

9's and 9's correlation = 1.0

9's and 10's correlation =
0.8343015075831931

9's and 11's correlation =
0.8343671520117597

9's and 12's correlation = -
0.03687568478987619

9's and 13's correlation = 0.7240770085197973

10's length = 229000

10's and 0's correlation = 0.7256020474087573

10's and 1's correlation = 0.8755026132874467

10's and 2's correlation = 0.49812474999984535

10's and 3's correlation = 0.2600219953813525

10's and 4's correlation = 0.7455334290099586

10's and 5's correlation = 0.5069819891980107

10's and 6's correlation = 0.23651339928068815

10's and 7's correlation = 0.744689418478985

10's and 8's correlation = 0.15166519259738245

10's and 9's correlation = 0.8343015075831931

10's and 10's correlation = 1.0

10's and 11's correlation = 0.999999870432008

10's and 12's correlation = -0.029292396138742335

10's and 13's correlation = 0.7455334290099666

11's length = 229000

11's and 0's correlation = 0.7256663946960974

11's and 1's correlation = 0.8755746554235715

11's and 2's correlation = 0.49817279877004617

11's and 3's correlation = 0.26004690879768083

11's and 4's correlation = 0.7456079088864922

11's and 5's correlation = 0.5070359176487754

11's and 6's correlation = 0.23654787532262583

11's and 7's correlation = 0.7447638328451675

11's and 8's correlation = 0.15168319454365203

11's and 9's correlation = 0.8343671520117597

11's and 10's correlation = 0.999999870432008

11's and 11's correlation = 1.0

11's and 12's correlation = -0.029290258597292385

11's and 13's correlation = 0.7456079088864583

12's length = 229000

12's and 0's correlation = 0.00784389872879273

12's and 1's correlation = 0.004368239337951021

12's and 2's correlation = 0.008911586763503905

12's and 3's correlation = 0.0009548938792259066

12's and 4's correlation = 0.020146220541269598

12's and 5's correlation = 0.09549083247089674

12's and 6's correlation = 0.4949402377030478

12's and 7's correlation = 0.020056921518281475

12's and 8's correlation = 0.16868619894737508

12's and 9's correlation = -0.03687568478987619

12's and 10's correlation = -0.029292396138742335

12's and 11's correlation = -0.029290258597292385

12's and 12's correlation = 1.0

12's and 13's correlation = 0.020146220541265844

13's length = 229000

13's and 0's correlation = 0.8549306130421125

13's and 1's correlation = 0.7676253013117524

13's and 2's correlation = 0.7695567500659815

13's and 3's correlation = 0.4285852339447252

13's and 4's correlation = 0.9999999999999879

13's and 5's correlation = 0.6935309086674928

13's and 6's correlation = 0.48241744880820664

13's and 7's correlation = 0.9999084496428561

13's and 8's correlation = 0.1911821122204665

13's and 9's correlation = 0.7240770085197973

13's and 10's correlation = 0.7455334290099666

13's and 11's correlation = 0.7456079088864583

13's and 12's correlation = 0.020146220541265844

13's and 13's correlation = 1.0

highly correlated=14

Correlation >= 0.80:

0's and 1's correlation = 0.8518546394196376

0 and 1

0's and 2's correlation = 0.9319914059475674

0 and 2

0's and 4's correlation = 0.8549306130421696

0 and 4

0's and 7's correlation = 0.8552274440756582

0 and 7

0's and 13's correlation = 0.8549306130421125

0 and 13

1's and 0's correlation = 0.8518546394196376

1 and 0

1's and 9's correlation = 0.8551594364451163

1 and 9

1's and 10's correlation = 0.8755026132874467

1 and 10

1's and 11's correlation = 0.8755746554235715

1 and 11

2's and 0's correlation = 0.9319914059475674

2 and 0

4's and 0's correlation = 0.8549306130421696

4 and 0

4's and 7's correlation = 0.9999084496428656

4 and 7

4's and 13's correlation = 0.9999999999999879

4 and 13

7's and 0's correlation = 0.8552274440756582

7 and 0

7's and 4's correlation = 0.9999084496428656

7 and 4

7's and 13's correlation = 0.9999084496428561

7 and 13

9's and 1's correlation = 0.8551594364451163

9 and 1

9's and 10's correlation = 0.8343015075831931

9 and 10

9's and 11's correlation = 0.8343671520117597

9 and 11

10's and 1's correlation = 0.8755026132874467

10 and 1

10's and 9's correlation = 0.8343015075831931

10 and 9

10's and 11's correlation = 0.999999870432008

10 and 11

11's and 1's correlation = 0.8755746554235715

11 and 1

11's and 9's correlation = 0.8343671520117597

11 and 9

11's and 10's correlation = 0.999999870432008

11 and 10

13's and 0's correlation = 0.8549306130421125

13 and 0

13's and 4's correlation = 0.9999999999999879

13 and 4

13's and 7's correlation = 0.9999084496428561

13 and 7

highly correlated=14

mean time of 0=0.00016567488424642636 seconds

mean time of 1=0.00012457120887056708 seconds

mean time of 2=0.0001042713764973603 seconds

mean time of 3=0.005284617665553197 seconds

mean time of 4=0.010215021116764785 seconds

mean time of 5=0.24768392716953327 seconds

mean time of 6=0.002436941055231219 seconds

mean time of 7=0.00795416019889465 seconds

mean time of 8=0.003021681985480296 seconds

mean time of 9=0.0017438217021492372 seconds

mean time of 10=0.006941008151358392 seconds

mean time of 11=0.0024084325440585875 seconds

mean time of 12=0.0009875802494032414 seconds

mean time of 13=0.011013393006470525 seconds

time needed = 1036.6104745864868 seconds

458.0

experiment-2

Xin>Xout for experiment-1:

0's length = 577000

0's and 0's correlation = 1.0

0's and 1's correlation = 0.8297240979712606

0's and 2's correlation = 0.920852446005865

0's and 3's correlation = 0.5950424626390575

0's and 4's correlation =
0.837341508094307

0's and 5's correlation =
0.5679284770476326

0's and 6's correlation =
0.5018397047827099

0's and 7's correlation =
0.8372437808029695

0's and 8's correlation =
0.2016544084777467

0's and 9's correlation =
0.6585647867860285

0's and 10's correlation =
0.6521818462632962

0's and 11's correlation =
0.6522539052483272

0's and 12's correlation =
0.04359656635759964

0's and 13's correlation =
0.8373415080944587

1's length = 577000

1's and 0's correlation =
0.8297240979712606

1's and 1's correlation = 1.0

1's and 2's correlation =
0.5464152526888723

1's and 3's correlation =
0.33501819532559807

1's and 4's correlation =
0.7346925171513463

1's and 5's correlation =
0.49489543773910566

1's and 6's correlation =
0.3088521172786979

1's and 7's correlation =
0.7339246793155103

1's and 8's correlation =
0.18375301910348296

1's and 9's correlation =
0.7973159808103839

1's and 10's correlation =
0.8236364243992174

1's and 11's correlation =
0.8237190473935047

1's and 12's correlation =
0.031022685167682897

1's and 13's correlation =
0.7346925171512914

2's length = 577000

2's and 0's correlation =
0.920852446005865

2's and 1's correlation =
0.5464152526888723

2's and 2's correlation = 1.0

2's and 3's correlation =
0.6588079085709782

2's and 4's correlation =
0.7431748852249198

2's and 5's correlation =
0.5064426483936848

2's and 6's correlation =
0.5372396593281448

2's and 7's correlation =
0.7435646215594245

2's and 8's correlation =
0.17421296916549328

2's and 9's correlation =
0.43118301047164803

2's and 10's correlation =
0.4032196000251201

2's and 11's correlation =
0.4032700051262666

2's and 12's correlation =
0.0437438327258575

2's and 13's correlation =
0.7431748852250157

3's length = 577000

3's and 0's correlation =
0.5950424626390575

3's and 1's correlation =
0.33501819532559807

3's and 2's correlation =
0.6588079085709782

3's and 3's correlation = 1.0

3's and 4's correlation =
0.42325046644411024

3's and 5's correlation =
0.2737148869052953

3's and 6's correlation =
0.27654487964311764

3's and 7's correlation =
0.4236829355920148

3's and 8's correlation =
0.06955330737254783

3's and 9's correlation =
0.23182354295492652

3's and 10's correlation =
0.21706623498633607

3's and 11's correlation =
0.2170936356535313

3's and 12's correlation =
0.01871816103066136

3's and 13's correlation =
0.42325046644118175

4's length = 577000

4's and 0's correlation =
0.837341508094307

4's and 1's correlation =
0.7346925171513463

4's and 2's correlation =
0.7431748852249198

4's and 3's correlation =
0.4232504664411024

4's and 4's correlation = 1.0

4's and 5's correlation =
0.77053252339014

4's and 6's correlation =
0.4876013562361137

4's and 7's correlation =
0.9999315648538221

4's and 8's correlation =
0.20658741333433026

4's and 9's correlation =
0.6486443527845748

4's and 10's correlation =
0.6742802961939923

4's and 11's correlation = 0.6743638168610107

4's and 12's correlation = 0.0563562510818234

4's and 13's correlation = 0.9999999999998662

5's length = 577000

5's and 0's correlation = 0.5679284770476326

5's and 1's correlation = 0.49489543773910566

5's and 2's correlation = 0.5064426483936848

5's and 3's correlation = 0.2737148869052953

5's and 4's correlation = 0.77053252339014

5's and 5's correlation = 1.0

5's and 6's correlation = 0.5252229675395186

5's and 7's correlation = 0.7721815700323925

5's and 8's correlation = 0.21046848487152747

5's and 9's correlation = 0.491181813984959

5's and 10's correlation = 0.5176228287089383

5's and 11's correlation = 0.5176870748713917

5's and 12's correlation = 0.11925561035262949

5's and 13's correlation = 0.7705325233902364

6's length = 577000

6's and 0's correlation = 0.5018397047827099

6's and 1's correlation = 0.3088521172786979

6's and 2's correlation = 0.5372396593281448

6's and 3's correlation = 0.27654487964311764

6's and 4's correlation = 0.4876013562361137

6's and 5's correlation = 0.5252229675395186

6's and 6's correlation = 1.0

6's and 7's correlation = 0.48860298086503606

6's and 8's correlation = 0.3874485840751955

6's and 9's correlation = 0.21248696396016156

6's and 10's correlation = 0.18303745864299278

6's and 11's correlation = 0.18307036285420344

6's and 12's correlation = 0.5329400111498945

6's and 13's correlation = 0.48760135623621736

7's length = 577000

7's and 0's correlation = 0.8372437808029695

7's and 1's correlation = 0.7339246793155103

7's and 2's correlation = 0.7435646215594245

7's and 3's correlation = 0.4236829355920148

7's and 4's correlation = 0.9999315648538221

7's and 5's correlation = 0.7721815700323925

7's and 6's correlation = 0.48860298086503606

7's and 7's correlation = 1.0

7's and 8's correlation = 0.20689209202791653

7's and 9's correlation = 0.6483127201385758

7's and 10's correlation = 0.6736209241453691

7's and 11's correlation = 0.6737043814167479

7's and 12's correlation = 0.056382872388069015

7's and 13's correlation = 0.9999315648537083

8's length = 577000

8's and 0's correlation = 0.2016544084777467

8's and 1's correlation = 0.18375301910348296

8's and 2's correlation = 0.17421296916549328

8's and 3's correlation = 0.06955330737254783

8's and 4's correlation = 0.20658741333433026

8's and 5's correlation = 0.21046848487152747

8's and 6's correlation = 0.3874485840751955

8's and 7's correlation = 0.20689209202791653

8's and 8's correlation = 1.0

8's and 9's correlation = 0.1475262920866443

8's and 10's correlation = 0.1548931735718557

8's and 11's correlation = 0.1549126196327803

8's and 12's correlation = 0.18010264441319326

8's and 13's correlation = 0.20658741333436584

9's length = 577000

9's and 0's correlation = 0.6585647867860285

9's and 1's correlation = 0.7973159808103839

9's and 2's correlation = 0.43118301047164803

9's and 3's correlation = 0.23182354295492652

9's and 4's correlation = 0.6486443527845748

9's and 5's correlation = 0.491181813984959

9's and 6's correlation = 0.21248696396016156

9's and 7's correlation = 0.6483127201385758

9's and 8's correlation = 0.1475262920866443

9's and 9's correlation = 1.0

9's and 10's correlation = 0.787724180180899

9's and 11's correlation = 0.7877975641226383

9's and 12's correlation = -0.02405933493373991

9's and 13's correlation = 0.6486443527846945

10's length = 577000

10's and 0's correlation = 0.6521818462632962

10's and 1's correlation = 0.8236364243992174

10's and 2's correlation = 0.4032196000251201

10's and 3's correlation = 0.21706623498633607

10's and 4's correlation = 0.6742802961939923

10's and 5's correlation = 0.5176228287089383

10's and 6's correlation = 0.18303745864299278

10's and 7's correlation = 0.6736209241453691

10's and 8's correlation = 0.1548931735718557

10's and 9's correlation = 0.787724180180899

10's and 10's correlation = 1.0

10's and 11's correlation = 0.9999998617840946

10's and 12's correlation = -0.01984427727760466

10's and 13's correlation = 0.6742802961941082

11's length = 577000

11's and 0's correlation = 0.6522539052483272

11's and 1's correlation = 0.8237190473935047

11's and 2's correlation = 0.4032700051262666

11's and 3's correlation = 0.2170936356535313

11's and 4's correlation = 0.6743638168610107

11's and 5's correlation = 0.5176870748713917

11's and 6's correlation = 0.18307036285420344

11's and 7's correlation = 0.6737043814167479

11's and 8's correlation = 0.1549126196327803

11's and 9's correlation = 0.7877975641226383

11's and 10's correlation = 0.9999998617840946

11's and 11's correlation = 1.0

11's and 12's correlation = -0.019842598858765433

11's and 13's correlation = 0.6743638168611368

12's length = 577000

12's and 0's correlation = 0.04359656635759964

12's and 1's correlation = 0.031022685167682897

12's and 2's correlation = 0.0437438327258575

12's and 3's correlation = 0.01871816103066136

12's and 4's correlation = 0.0563562510818234

12's and 5's correlation = 0.11925561035262949

12's and 6's correlation = 0.5329400111498945

12's and 7's correlation = 0.056382872388069015

12's and 8's correlation = 0.18010264441319326

12's and 9's correlation = -0.02405933493373991

12's and 10's correlation = -0.01984427727760466

12's and 11's correlation = -0.019842598858765433

12's and 12's correlation = 1.0

12's and 13's correlation = 0.05635625108182449

13's length = 577000

13's and 0's correlation = 0.8373415080944587

13's and 1's correlation = 0.7346925171512914

13's and 2's correlation = 0.7431748852250157

13's and 3's correlation = 0.42325046644118175

13's and 4's correlation = 0.9999999999998662

13's and 5's correlation = 0.7705325233902364

13's and 6's correlation = 0.48760135623621736

13's and 7's correlation = 0.9999315648537083

13's and 8's correlation = 0.20658741333436584

13's and 9's correlation = 0.6486443527846945

13's and 10's correlation = 0.6742802961941082

13's and 11's correlation = 0.6743638168611368

13's and 12's correlation = 0.05635625108182449

13's and 13's correlation = 1.0

highly correlated=11

Correlation >= 0.80:

0's and 1's correlation = 0.8297240979712606

0 and 1

0's and 2's correlation = 0.920852446005865

0 and 2

0's and 4's correlation = 0.837341508094307

0 and 4

0's and 7's correlation = 0.8372437808029695

0 and 7

0's and 13's correlation = 0.8373415080944587

0 and 13

1's and 0's correlation = 0.8297240979712606

1 and 0

1's and 10's correlation = 0.8236364243992174

1 and 10

1's and 11's correlation = 0.8237190473935047

1 and 11

2's and 0's correlation = 0.920852446005865

2 and 0

4's and 0's correlation = 0.837341508094307

4 and 0

4's and 7's correlation = 0.9999315648538221

4 and 7

4's and 13's correlation = 0.9999999999998662

4 and 13

7's and 0's correlation = 0.8372437808029695

7 and 0

7's and 4's correlation = 0.9999315648538221

7 and 4

7's and 13's correlation = 0.9999315648537083

7 and 13

10's and 1's correlation = 0.8236364243992174

10 and 1

10's and 11's correlation = 0.9999998617840946

10 and 11

11's and 1's correlation = 0.8237190473935047

11 and 1

11's and 10's correlation = 0.9999998617840946

11 and 10

13's and 0's correlation = 0.8373415080944587

13 and 0

13's and 4's correlation = 0.9999999999998662

13 and 4

13's and 7's correlation = 0.9999315648537083

13 and 7

highly correlated=11

mean time of 0=0.000233058830274453 seconds

mean time of 1=0.00012457498851227387 seconds

mean time of 2=7.853516259681e-05 seconds

mean time of 3=0.0034016514568229687 seconds

mean time of 4=0.007865565984253246 seconds

mean time of 5=0.17490618695832622 seconds

mean time of 6=0.0017907006281913877 seconds

mean time of 7=0.0053590379513322375 seconds

mean time of 8=0.002335952224929783 seconds

mean time of 9=0.0016282337377141625 seconds

mean time of 10=0.006507459959496246 seconds

mean time of 11=0.002145819275589915 seconds

mean time of 12=0.0009671487676002331 seconds

mean time of 13=0.008307000793245471 seconds

time needed = 2792.5017318725586 seconds

1154.0

>>>

Xin==Xout for experiment-2:

0's length = 18500

0's and 0's correlation = 1.0

0's and 1's correlation = 0.9034466057206556

0's and 2's correlation = 0.8996785539561272

0's and 3's correlation = 0.424457594376846

0's and 4's correlation = 0.824532907415164

0's and 5's correlation = 0.5226489515374917

0's and 6's correlation = 0.408366741882549

0's and 7's correlation = 0.8249740185720582

0's and 8's correlation = 0.19346853954253315

0's and 9's correlation = 0.750921869983648

0's and 10's correlation = 0.8065409083771328

0's and 11's correlation = 0.8065802434935403

0's and 12's correlation = -0.011285184551360577

0's and 13's correlation = 0.8245329074151638

1's length = 18500

1's and 0's correlation = 0.9034466057206556

1's and 1's correlation = 1.0

1's and 2's correlation = 0.6256610003826675

1's and 3's correlation = 0.26228799722279367

1's and 4's correlation = 0.7373515187529488

1's and 5's correlation = 0.4599308859493282

1's and 6's correlation = 0.280941059505637

1's and 7's correlation = 0.736931533041524

1's and 8's correlation = 0.16096673718238383

1's and 9's correlation = 0.8251886623991594

1's and 10's correlation = 0.8999299082983379

1's and 11's correlation = 0.899970546882397

1's and 12's correlation = -0.0191174969249519

1's and 13's correlation = 0.7373515187529507

2's length = 18500

2's and 0's correlation = 0.8996785539561272

2's and 1's correlation = 0.6256610003826675

2's and 2's correlation = 1.0

2's and 3's correlation = 0.5052819018097076

2's and 4's correlation = 0.749523167216845

2's and 5's correlation = 0.48269504983975114

2's and 6's correlation = 0.45700708485235714

2's and 7's correlation = 0.7507535238135853

2's and 8's correlation = 0.18813442188244064

2's and 9's correlation = 0.5261291093499328

2's and 10's correlation = 0.5512273328329013

2's and 11's correlation = 0.5512575269464319

2's and 12's correlation = -0.0010676836269586528

2's and 13's correlation = 0.7495231672168474

3's length = 18500

3's and 0's correlation = 0.424457594376846

3's and 1's correlation = 0.26228799722279367

3's and 2's correlation = 0.5052819018097076

3's and 3's correlation = 1.0

3's and 4's correlation = 0.2924810754896367

3's and 5's correlation = 0.26406743106664293

3's and 6's correlation = 0.16334670670825982

3's and 7's correlation = 0.2936863290213999

3's and 8's correlation = 0.061187622128484

3's and 9's correlation = 0.19701869505210393

3's and 10's correlation = 0.2410017342821813

3's and 11's correlation = 0.2410127667714273

3's and 12's correlation = 0.0029841152850482193

3's and 13's correlation = 0.2924810754896336

4's length = 18500

4's and 0's correlation = 0.824532907415164

4's and 1's correlation = 0.7373515187529488

4's and 2's correlation = 0.749523167216845

4's and 3's correlation = 0.2924810754896367

4's and 4's correlation = 1.0

4's and 5's correlation = 0.6586187213283798

4's and 6's correlation = 0.4467147055141407

4's and 7's correlation = 0.9998807244117549

4's and 8's correlation = 0.20136724205014453

4's and 9's correlation = 0.748010118412757

4's and 10's correlation = 0.7493888060539835

4's and 11's correlation = 0.7494331735404722

4's and 12's correlation = -0.013882977281190827

4's and 13's correlation =
1.000000000000004

5's length = 18500

5's and 0's correlation =
0.5226489515374917

5's and 1's correlation =
0.4599308859493282

5's and 2's correlation =
0.48269504983975114

5's and 3's correlation =
0.26406743106664293

5's and 4's correlation =
0.6586187213283798

5's and 5's correlation = 1.0

5's and 6's correlation =
0.4783650448133551

5's and 7's correlation =
0.6619656122944354

5's and 8's correlation =
0.19246491286921147

5's and 9's correlation =
0.46287359753955654

5's and 10's correlation =
0.4936315590387974

5's and 11's correlation =
0.49365994089473336

5's and 12's correlation =
0.030354200765492653

5's and 13's correlation =
0.6586187213283835

6's length = 18500

6's and 0's correlation =
0.408366741882549

6's and 1's correlation =
0.280941059505637

6's and 2's correlation =
0.45700708485235714

6's and 3's correlation =
0.16334670670825982

6's and 4's correlation =
0.4467147055141407

6's and 5's correlation =
0.4783650448133551

6's and 6's correlation = 1.0

6's and 7's correlation =
0.44852684378662616

6's and 8's correlation =
0.4261535151326321

6's and 9's correlation =
0.23355348592834282

6's and 10's correlation =
0.20182980846420934

6's and 11's correlation =
0.20185178311692514

6's and 12's correlation =
0.4249405571667171

6's and 13's correlation =
0.44671470551413966

7's length = 18500

7's and 0's correlation =
0.8249740185720582

7's and 1's correlation =
0.736931533041524

7's and 2's correlation =
0.7507535238135853

7's and 3's correlation =
0.2936863290213999

7's and 4's correlation =
0.9998807244117549

7's and 5's correlation =
0.6619656122944354

7's and 6's correlation =
0.44852684378662616

7's and 7's correlation = 1.0

7's and 8's correlation =
0.20194818530268116

7's and 9's correlation =
0.7472685407623815

7's and 10's correlation =
0.7488424763905859

7's and 11's correlation =
0.7488867916227053

7's and 12's correlation = -
0.013994179810728598

7's and 13's correlation =
0.9998807244117621

8's length = 18500

8's and 0's correlation =
0.19346853954253315

8's and 1's correlation =
0.16096673718238383

8's and 2's correlation =
0.18813442188244064

8's and 3's correlation =
0.061187622128484

8's and 4's correlation =
0.20136724205014453

8's and 5's correlation =
0.19246491286921147

8's and 6's correlation =
0.4261535151326321

8's and 7's correlation =
0.20194818530268116

8's and 8's correlation = 1.0

8's and 9's correlation =
0.15582278283410453

8's and 10's correlation =
0.14238745026075428

8's and 11's correlation =
0.14239894032885553

8's and 12's correlation =
0.11507209311358854

8's and 13's correlation =
0.2013672420501447

9's length = 18500

9's and 0's correlation =
0.750921869983648

9's and 1's correlation =
0.8251886623991594

9's and 2's correlation =
0.5261291093499328

9's and 3's correlation =
0.19701869505210393

9's and 4's correlation =
0.748010118412757

9's and 5's correlation =
0.46287359753955654

9's and 6's correlation =
0.23355348592834282

9's and 7's correlation = 0.7472685407623815

9's and 8's correlation = 0.15582278283410453

9's and 9's correlation = 1.0

9's and 10's correlation = 0.8664831261371481

9's and 11's correlation = 0.8665234033211539

9's and 12's correlation = -0.05443963482818397

9's and 13's correlation = 0.7480101184127516

10's length = 18500

10's and 0's correlation = 0.8065409083771328

10's and 1's correlation = 0.8999299082983379

10's and 2's correlation = 0.5512273328329013

10's and 3's correlation = 0.2410017342821813

10's and 4's correlation = 0.7493888060539835

10's and 5's correlation = 0.4936315590387974

10's and 6's correlation = 0.20182980846420934

10's and 7's correlation = 0.7488424763905859

10's and 8's correlation = 0.14238745026075428

10's and 9's correlation = 0.8664831261371481

10's and 10's correlation = 1.0

10's and 11's correlation = 0.9999999429587301

10's and 12's correlation = -0.049461523703796806

10's and 13's correlation = 0.7493888060539823

11's length = 18500

11's and 0's correlation = 0.8065802434935403

11's and 1's correlation = 0.899970546882397

11's and 2's correlation = 0.5512575269464319

11's and 3's correlation = 0.2410127667714273

11's and 4's correlation = 0.7494331735404722

11's and 5's correlation = 0.49365994089473336

11's and 6's correlation = 0.20185178311692514

11's and 7's correlation = 0.7488867916227053

11's and 8's correlation = 0.14239894032885553

11's and 9's correlation = 0.8665234033211539

11's and 10's correlation = 0.9999999429587301

11's and 11's correlation = 1.0

11's and 12's correlation = -0.04946017887037118

11's and 13's correlation = 0.7494331735404728

12's length = 18500

12's and 0's correlation = -0.011285184551360577

12's and 1's correlation = -0.0191174969249519

12's and 2's correlation = -0.0010676836269586528

12's and 3's correlation = 0.0029841152850482193

12's and 4's correlation = -0.013882977281190827

12's and 5's correlation = 0.030354200765492653

12's and 6's correlation = 0.4249405571667171

12's and 7's correlation = -0.013994179810728598

12's and 8's correlation = 0.11507209311358854

12's and 9's correlation = -0.05443963482818397

12's and 10's correlation = -0.049461523703796806

12's and 11's correlation = -0.04946017887037118

12's and 12's correlation = 1.0

12's and 13's correlation = -0.013882977281190142

13's length = 18500

13's and 0's correlation = 0.8245329074151638

13's and 1's correlation = 0.7373515187529507

13's and 2's correlation = 0.7495231672168474

13's and 3's correlation = 0.2924810754896336

13's and 4's correlation = 1.000000000000004

13's and 5's correlation = 0.6586187213283835

13's and 6's correlation = 0.44671470551413966

13's and 7's correlation = 0.9998807244117621

13's and 8's correlation = 0.2013672420501447

13's and 9's correlation = 0.7480101184127516

13's and 10's correlation = 0.7493888060539823

13's and 11's correlation = 0.7494331735404728

13's and 12's correlation = -0.013882977281190142

13's and 13's correlation = 1.0

highly correlated=16

Correlation >= 0.80:

0's and 1's correlation = 0.9034466057206556

0 and 1

0's and 2's correlation = 0.8996785539561272

0 and 2

0's and 4's correlation = 0.824532907415164

0 and 4

0's and 7's correlation = 0.8249740185720582

0 and 7

0's and 10's correlation = 0.8065409083771328

0 and 10

0's and 11's correlation = 0.8065802434935403

0 and 11

0's and 13's correlation = 0.8245329074151638

0 and 13

1's and 0's correlation = 0.9034466057206556

1 and 0

1's and 9's correlation = 0.8251886623991594

1 and 9

1's and 10's correlation = 0.8999299082983379

1 and 10

1's and 11's correlation = 0.899970546882397

1 and 11

2's and 0's correlation = 0.8996785539561272

2 and 0

4's and 0's correlation = 0.824532907415164

4 and 0

4's and 7's correlation = 0.9998807244117549

4 and 7

4's and 13's correlation = 1.000000000000004

4 and 13

7's and 0's correlation = 0.8249740185720582

7 and 0

7's and 4's correlation = 0.9998807244117549

7 and 4

7's and 13's correlation = 0.9998807244117621

7 and 13

9's and 1's correlation = 0.8251886623991594

9 and 1

9's and 10's correlation = 0.8664831261371481

9 and 10

9's and 11's correlation = 0.8665234033211539

9 and 11

10's and 0's correlation = 0.8065409083771328

10 and 0

10's and 1's correlation = 0.8999299082983379

10 and 1

10's and 9's correlation = 0.8664831261371481

10 and 9

10's and 11's correlation = 0.9999999429587301

10 and 11

11's and 0's correlation = 0.8065802434935403

11 and 0

11's and 1's correlation = 0.899970546882397

11 and 1

11's and 9's correlation = 0.8665234033211539

11 and 9

11's and 10's correlation = 0.9999999429587301

11 and 10

13's and 0's correlation = 0.8245329074151638

13 and 0

13's and 4's correlation = 1.000000000000004

13 and 4

13's and 7's correlation = 0.9998807244117621

13 and 7

highly correlated=16

mean time of 0=0.00016913542876372467 seconds

mean time of 1=0.00016893051766060494 seconds

mean time of 2=0.0 seconds

mean time of 3=0.003463290188763593 seconds

mean time of 4=0.01258582166723303 seconds

mean time of 5=0.28212742805480956 seconds

mean time of 6=0.0026187046154125316 seconds

mean time of 7=0.008202163593189137 seconds

mean time of 8=0.0031390976261448217 seconds

mean time of 9=0.0015285878568082243 seconds

mean time of 10=0.006931574280197556 seconds

mean time of 11=0.0020268362921637456 seconds

mean time of 12=0.0010976559407002216 seconds

mean time of 13=0.012245405042493666 seconds

time needed = 73.67065954208374 seconds

37.0

experiment-2

Xin==Xout for experiment-1:

0's length = 76000

0's and 0's correlation = 1.0

0's and 1's correlation = 0.8776078943604801

0's and 2's correlation = 0.8854100745992667

0's and 3's correlation = 0.46222688982523064

0's and 4's correlation = 0.8183795414040309

0's and 5's correlation = 0.5366032910764821

0's and 6's correlation = 0.4573852953101977

0's and 7's correlation = 0.8181761969904029

0's and 8's correlation = 0.21546120312276398

0's and 9's correlation = 0.6616215012279271

0's and 10's correlation = 0.710392786683613

0's and 11's correlation = 0.7104441187840804

0's and 12's correlation = 0.05333034786020993

0's and 13's correlation = 0.8183795414040061

1's length = 76000

1's and 0's correlation = 0.8776078943604801

1's and 1's correlation = 1.0

1's and 2's correlation = 0.5542222993192125

1's and 3's correlation = 0.2685848932577495

1's and 4's correlation = 0.7212973781473445

1's and 5's correlation = 0.4745078367155748

1's and 6's correlation = 0.27553204205974463

1's and 7's correlation = 0.7204228880852795

1's and 8's correlation = 0.17425571250985775

1's and 9's correlation = 0.7581759309106915

1's and 10's correlation = 0.838646318457361

1's and 11's correlation = 0.8387004539604362

1's and 12's correlation = 0.033844118033268526

1's and 13's correlation = 0.7212973781473437

2's length = 76000

2's and 0's correlation = 0.8854100745992667

2's and 1's correlation = 0.5542222993192125

2's and 2's correlation = 1.0

2's and 3's correlation = 0.5421638562916223

2's and 4's correlation = 0.7216140920994629

2's and 5's correlation = 0.4716422215230623

2's and 6's correlation = 0.5270211437387952

2's and 7's correlation = 0.7221089296798621

2's and 8's correlation = 0.2051554287960746

2's and 9's correlation = 0.4136698958646469

2's and 10's correlation = 0.4203289105478758

2's and 11's correlation = 0.42036555058745007

2's and 12's correlation = 0.05978441583732571

2's and 13's correlation = 0.72161409209947

3's length = 76000

3's and 0's correlation = 0.46222688982523064

3's and 1's correlation = 0.2685848932577495

3's and 2's correlation = 0.5421638562916223

3's and 3's correlation = 1.0

3's and 4's correlation = 0.30773731345598193

3's and 5's correlation = 0.21654098100052843

3's and 6's correlation = 0.2090566751131949

3's and 7's correlation = 0.30861640826582565

3's and 8's correlation = 0.07766870352321284

3's and 9's correlation = 0.17077665588163674

3's and 10's correlation =
0.18517635462503365

3's and 11's correlation =
0.1851902725273954

3's and 12's correlation =
0.025310979902584706

3's and 13's correlation =
0.3077373134559766

4's length = 76000

4's and 0's correlation =
0.8183795414040309

4's and 1's correlation =
0.7212973781473445

4's and 2's correlation =
0.7216140920994629

4's and 3's correlation =
0.30773731345598193

4's and 4's correlation = 1.0

4's and 5's correlation =
0.7587480163278918

4's and 6's correlation =
0.4628913086292375

4's and 7's correlation =
0.999917135180774

4's and 8's correlation =
0.20519893917012108

4's and 9's correlation =
0.6633543413362354

4's and 10's correlation =
0.6783823380133478

4's and 11's correlation =
0.6784371281451889

4's and 12's correlation =
0.049975676949614314

4's and 13's correlation =
0.9999999999999896

5's length = 76000

5's and 0's correlation =
0.5366032910764821

5's and 1's correlation =
0.4745078367155748

5's and 2's correlation =
0.4716422215230623

5's and 3's correlation =
0.21654098100052843

5's and 4's correlation =
0.7587480163278918

5's and 5's correlation = 1.0

5's and 6's correlation =
0.47532479859109966

5's and 7's correlation =
0.7607176359333008

5's and 8's correlation =
0.18941525548627092

5's and 9's correlation =
0.5001792371957189

5's and 10's correlation =
0.5233132805651529

5's and 11's correlation =
0.5233527795900049

5's and 12's correlation =
0.09602895816290699

5's and 13's correlation =
0.7587480163278751

6's length = 76000

6's and 0's correlation =
0.4573852953101977

6's and 1's correlation =
0.27553204205974463

6's and 2's correlation =
0.5270211437387952

6's and 3's correlation =
0.2090566751131949

6's and 4's correlation =
0.4628913086292375

6's and 5's correlation =
0.47532479859109966

6's and 6's correlation = 1.0

6's and 7's correlation =
0.4640515211570746

6's and 8's correlation =
0.3802233988334431

6's and 9's correlation =
0.1870800897754855

6's and 10's correlation =
0.15786383458383732

6's and 11's correlation =
0.1578872556472776

6's and 12's correlation =
0.5223395127675502

6's and 13's correlation =
0.46289130862924704

7's length = 76000

7's and 0's correlation =
0.8181761969904029

7's and 1's correlation =
0.7204228880852795

7's and 2's correlation =
0.7221089296798621

7's and 3's correlation =
0.30861640826582565

7's and 4's correlation =
0.999917135180774

7's and 5's correlation =
0.7607176359333008

7's and 6's correlation =
0.4640515211570746

7's and 7's correlation = 1.0

7's and 8's correlation =
0.2055156826958011

7's and 9's correlation =
0.6628615976533244

7's and 10's correlation =
0.6778296664546589

7's and 11's correlation =
0.6778844025830498

7's and 12's correlation =
0.0500558642928842

7's and 13's correlation =
0.9999171351807694

8's length = 76000

8's and 0's correlation =
0.21546120312276398

8's and 1's correlation =
0.17425571250985775

8's and 2's correlation =
0.2051554287960746

8's and 3's correlation =
0.07766870352321284

8's and 4's correlation =
0.20519893917012108

8's and 5's correlation =
0.18941525548627092

8's and 6's correlation =
0.3802233988334431

8's and 7's correlation =
0.2055156826958011

8's and 8's correlation = 1.0

8's and 9's correlation =
0.15109087180770694

8's and 10's correlation =
0.15387837875211688

8's and 11's correlation =
0.1538913035366153

8's and 12's correlation =
0.1799369638627287

8's and 13's correlation =
0.20519893917011903

9's length = 76000

9's and 0's correlation =
0.6616215012279271

9's and 1's correlation =
0.7581759309106915

9's and 2's correlation =
0.4136698958646469

9's and 3's correlation =
0.17077665588163674

9's and 4's correlation =
0.6633543413362354

9's and 5's correlation =
0.5001792371957189

9's and 6's correlation =
0.1870800897754855

9's and 7's correlation =
0.6628615976533244

9's and 8's correlation =
0.15109087180770694

9's and 9's correlation = 1.0

9's and 10's correlation =
0.8123028730522268

9's and 11's correlation =
0.8123513645978202

9's and 12's correlation = -
0.02488232222598652

9's and 13's correlation =
0.6633543413362237

10's length = 76000

10's and 0's correlation =
0.710392786683613

10's and 1's correlation =
0.838646318457361

10's and 2's correlation =
0.4203289105478758

10's and 3's correlation =
0.18517635462503365

10's and 4's correlation =
0.6783823380133478

10's and 5's correlation =
0.5233132805651529

10's and 6's correlation =
0.15786383458383732

10's and 7's correlation =
0.6778296664546589

10's and 8's correlation =
0.15387837875211688

10's and 9's correlation =
0.8123028730522268

10's and 10's correlation = 1.0

10's and 11's correlation =
0.999999904147569

10's and 12's correlation = -
0.02335628717432311

10's and 13's correlation =
0.678382338013341

11's length = 76000

11's and 0's correlation =
0.7104441187840804

11's and 1's correlation =
0.8387004539604362

11's and 2's correlation =
0.42036555058745007

11's and 3's correlation =
0.1851902725273954

11's and 4's correlation =
0.6784371281451889

11's and 5's correlation =
0.5233527795900049

11's and 6's correlation =
0.1578872556472776

11's and 7's correlation =
0.6778844025830498

11's and 8's correlation =
0.1538913035366153

11's and 9's correlation =
0.8123513645978202

11's and 10's correlation =
0.999999904147569

11's and 11's correlation = 1.0

11's and 12's correlation = -
0.023353497484672945

11's and 13's correlation =
0.6784371281451879

12's length = 76000

12's and 0's correlation =
0.05333034786020993

12's and 1's correlation =
0.033844118033268526

12's and 2's correlation =
0.05978441583732571

12's and 3's correlation =
0.025310979902584706

12's and 4's correlation =
0.049975676949614314

12's and 5's correlation =
0.09602895816290699

12's and 6's correlation =
0.5223395127675502

12's and 7's correlation =
0.0500558642928842

12's and 8's correlation =
0.1799369638627287

12's and 9's correlation = -
0.02488232222598652

12's and 10's correlation = -
0.02335628717432311

12's and 11's correlation = -
0.023353497484672945

12's and 12's correlation = 1.0

12's and 13's correlation =
0.049975676949615945

13's length = 76000

13's and 0's correlation =
0.8183795414040061

13's and 1's correlation =
0.7212973781473437

13's and 2's correlation =
0.72161409209947

13's and 3's correlation =
0.3077373134559766

13's and 4's correlation =
0.9999999999999896

13's and 5's correlation =
0.7587480163278751

13's and 6's correlation =
0.46289130862924704

13's and 7's correlation =
0.9999171351807694

13's and 8's correlation =
0.20519893917011903

13's and 9's correlation =
0.6633543413362237

13's and 10's correlation =
0.678382338013341

13's and 11's correlation =
0.6784371281451879

13's and 12's correlation =
0.049975676949615945

13's and 13's correlation = 1.0

highly correlated=13

Correlation >= 0.80:

0's and 1's correlation =
0.8776078943604801

0 and 1

0's and 2's correlation =
0.8854100745992667

0 and 2

0's and 4's correlation =
0.8183795414040309

0 and 4

0's and 7's correlation =
0.8181761969904029

0 and 7

0's and 13's correlation =
0.8183795414040061

0 and 13

1's and 0's correlation =
0.8776078943604801

1 and 0

1's and 10's correlation =
0.838646318457361

1 and 10

1's and 11's correlation =
0.8387004539604362

1 and 11

2's and 0's correlation =
0.8854100745992667

2 and 0

4's and 0's correlation =
0.8183795414040309

4 and 0

4's and 7's correlation =
0.999917135180774

4 and 7

4's and 13's correlation =
0.9999999999999896

4 and 13

7's and 0's correlation =
0.8181761969904029

7 and 0

7's and 4's correlation =
0.999917135180774

7 and 4

7's and 13's correlation =
0.9999171351807694

7 and 13

9's and 10's correlation =
0.8123028730522268

9 and 10

9's and 11's correlation =
0.8123513645978202

9 and 11

10's and 1's correlation =
0.838646318457361

10 and 1

10's and 9's correlation =
0.8123028730522268

10 and 9

10's and 11's correlation =
0.999999904147569

10 and 11

11's and 1's correlation =
0.8387004539604362

11 and 1

11's and 9's correlation =
0.8123513645978202

11 and 9

11's and 10's correlation =
0.999999904147569

11 and 10

13's and 0's correlation =
0.8183795414040061

13 and 0

13's and 4's correlation =
0.9999999999999896

13 and 4

13's and 7's correlation =
0.9999171351807694

13 and 7

highly correlated=13

mean time of
0=0.00017234181102953458 seconds

mean time of 1=4.644299808301424e-
05 seconds

mean time of
2=0.00012462986143011795 seconds

mean time of
3=0.002522477350736919 seconds

mean time of 4=0.008283384222733347 seconds

mean time of 5=0.1888520265880384 seconds

mean time of 6=0.0018660990815413626 seconds

mean time of 7=0.005546667073902331 seconds

mean time of 8=0.0019306452650772897 seconds

mean time of 9=0.002259737253189087 seconds

mean time of 10=0.005668308232959948 seconds

mean time of 11=0.002106330582970067 seconds

mean time of 12=0.0007482381243454783 seconds

mean time of 13=0.008638963573857357 seconds

time needed = 221.47337317466736 seconds

152.0

experiment-1

Xin<Xout for experiment-2:

0's length = 207000

0's and 0's correlation = 1.0

0's and 1's correlation = 0.9293972467530615

0's and 2's correlation = 0.8543281453895268

0's and 3's correlation = 0.33707584537730184

0's and 4's correlation = 0.8586276683804228

0's and 5's correlation = 0.5312077131488855

0's and 6's correlation = 0.37937857982938383

0's and 7's correlation = 0.858710452665223

0's and 8's correlation = 0.1941500132980178

0's and 9's correlation = 0.7965203952774285

0's and 10's correlation = 0.8492436973386159

0's and 11's correlation = 0.8492697447131

0's and 12's correlation = -0.018636863017194614

0's and 13's correlation = 0.8586276683803444

1's length = 207000

1's and 0's correlation = 0.9293972467530615

1's and 1's correlation = 1.0

1's and 2's correlation = 0.6021863044067244

1's and 3's correlation = 0.1845841320782988

1's and 4's correlation = 0.7704395100965727

1's and 5's correlation = 0.47260955682656136

1's and 6's correlation = 0.2408761110267736

1's and 7's correlation = 0.7699517099994857

1's and 8's correlation = 0.14880414695366453

1's and 9's correlation = 0.8400320361468672

1's and 10's correlation = 0.9251394552856445

1's and 11's correlation = 0.9251651050274567

1's and 12's correlation = -0.026810333616898933

1's and 13's correlation = 0.7704395100965288

2's length = 207000

2's and 0's correlation = 0.8543281453895268

2's and 1's correlation = 0.6021863044067244

2's and 2's correlation = 1.0

2's and 3's correlation = 0.4691971585938091

2's and 4's correlation = 0.7723687485792342

2's and 5's correlation = 0.4835291346165208

2's and 6's correlation = 0.4814323328239132

2's and 7's correlation = 0.7732347308947147

2's and 8's correlation = 0.21042043320152135

2's and 9's correlation = 0.5400259875526846

2's and 10's correlation = 0.5342243462769243

2's and 11's correlation = 0.5342445695481876

2's and 12's correlation = -0.0025593359898413016

2's and 13's correlation = 0.7723687485791711

3's length = 207000

3's and 0's correlation = 0.33707584537730184

3's and 1's correlation = 0.1845841320782988

3's and 2's correlation = 0.4691971585938091

3's and 3's correlation = 1.0

3's and 4's correlation = 0.2510744962448265

3's and 5's correlation = 0.23001623454099532

3's and 6's correlation = 0.1586944593609685

3's and 7's correlation = 0.2522793092742871

3's and 8's correlation = 0.07342942310811328

3's and 9's correlation = 0.1516281029053252

3's and 10's correlation = 0.15959242276448415

3's and 11's correlation = 0.15960019554863447

3's and 12's correlation = 0.0002642724004686509

3's and 13's correlation = 0.2510744962448216

4's length = 207000

4's and 0's correlation = 0.8586276683804228

4's and 1's correlation = 0.7704395100965727

4's and 2's correlation = 0.7723687485792342

4's and 3's correlation = 0.2510744962448265

4's and 4's correlation = 1.0

4's and 5's correlation = 0.6830054519596225

4's and 6's correlation = 0.40458584745628934

4's and 7's correlation = 0.999895440467772

4's and 8's correlation = 0.16607073410371392

4's and 9's correlation = 0.7773243840907444

4's and 10's correlation = 0.7503362413363571

4's and 11's correlation = 0.7503634701459231

4's and 12's correlation = -0.02757755126578715

4's and 13's correlation = 0.9999999999999939

5's length = 207000

5's and 0's correlation = 0.5312077131488855

5's and 1's correlation = 0.47260955682656136

5's and 2's correlation = 0.4835291346165208

5's and 3's correlation = 0.23001623454099532

5's and 4's correlation = 0.6830054519596225

5's and 5's correlation = 1.0

5's and 6's correlation = 0.43733246745599497

5's and 7's correlation = 0.6859034992039993

5's and 8's correlation = 0.15858811070009338

5's and 9's correlation = 0.5005063716920091

5's and 10's correlation = 0.5024957755329853

5's and 11's correlation = 0.5025150286410741

5's and 12's correlation = 0.02641902745162233

5's and 13's correlation = 0.6830054519596105

6's length = 207000

6's and 0's correlation = 0.37937857982938383

6's and 1's correlation = 0.2408761110267736

6's and 2's correlation = 0.4814323328239132

6's and 3's correlation = 0.1586944593609685

6's and 4's correlation = 0.40458584745628934

6's and 5's correlation = 0.43733246745599497

6's and 6's correlation = 1.0

6's and 7's correlation = 0.4058955061586755

6's and 8's correlation = 0.3842535503858206

6's and 9's correlation = 0.2164847182282208

6's and 10's correlation = 0.17371950677909775

6's and 11's correlation = 0.17373489902246447

6's and 12's correlation = 0.47039078485369296

6's and 13's correlation = 0.40458584745624016

7's length = 207000

7's and 0's correlation = 0.858710452665223

7's and 1's correlation = 0.7699517099994857

7's and 2's correlation = 0.7732347308947147

7's and 3's correlation = 0.2522793092742871

7's and 4's correlation = 0.999895440467772

7's and 5's correlation = 0.6859034992039993

7's and 6's correlation = 0.4058955061586755

7's and 7's correlation = 1.0

7's and 8's correlation = 0.16642611302575985

7's and 9's correlation = 0.7765419339914554

7's and 10's correlation = 0.7498457617865343

7's and 11's correlation = 0.7498730012933517

7's and 12's correlation = -0.027730738168047227

7's and 13's correlation = 0.9998954404677783

8's length = 207000

8's and 0's correlation = 0.1941500132980178

8's and 1's correlation = 0.14880414695366453

8's and 2's correlation = 0.21042043320152135

8's and 3's correlation = 0.07342942310811328

8's and 4's correlation = 0.16607073410371392

8's and 5's correlation = 0.15858811070009338

8's and 6's correlation = 0.3842535503858206

8's and 7's correlation = 0.16642611302575985

8's and 8's correlation = 1.0

8's and 9's correlation = 0.14543470822188556

8's and 10's correlation = 0.13808904439279485

8's and 11's correlation = 0.13809610750683535

8's and 12's correlation = 0.137643880297355

8's and 13's correlation = 0.16607073410371173

9's length = 207000

9's and 0's correlation = 0.7965203952774285

9's and 1's correlation = 0.8400320361468672

9's and 2's correlation = 0.5400259875526846

9's and 3's correlation = 0.1516281029053252

9's and 4's correlation = 0.7773243840907444

9's and 5's correlation = 0.5005063716920091

9's and 6's correlation = 0.2164847182282208

9's and 7's correlation = 0.7765419339914554

9's and 8's correlation = 0.14543470822188556

9's and 9's correlation = 1.0

9's and 10's correlation = 0.8892485452460227

9's and 11's correlation = 0.889272282326223

9's and 12's correlation = -0.0621381491282267

9's and 13's correlation = 0.7773243840907337

10's length = 207000

10's and 0's correlation = 0.8492436973386159

10's and 1's correlation = 0.9251394552856445

10's and 2's correlation = 0.5342243462769243

10's and 3's correlation = 0.15959242276448415

10's and 4's correlation = 0.7503362413363571

10's and 5's correlation = 0.5024957755329853

10's and 6's correlation = 0.17371950677909775

10's and 7's correlation = 0.7498457617865343

10's and 8's correlation = 0.13808904439279485

10's and 9's correlation = 0.8892485452460227

10's and 10's correlation = 1.0

10's and 11's correlation = 0.9999999530341954

10's and 12's correlation = -0.05966202027010081

10's and 13's correlation = 0.7503362413363418

11's length = 207000

11's and 0's correlation = 0.8492697447131

11's and 1's correlation = 0.9251651050274567

11's and 2's correlation = 0.5342445695481876

11's and 3's correlation = 0.15960019554863447

11's and 4's correlation = 0.7503634701459231

11's and 5's correlation = 0.5025150286410741

11's and 6's correlation = 0.17373489902246447

11's and 7's correlation = 0.7498730012933517

11's and 8's correlation = 0.13809610750683535

11's and 9's correlation = 0.889272282326223

11's and 10's correlation = 0.9999999530341954

11's and 11's correlation = 1.0

11's and 12's correlation = -0.059659613245887824

11's and 13's correlation = 0.7503634701459062

12's length = 207000

12's and 0's correlation = -0.018636863017194614

12's and 1's correlation = -0.026810333616898933

12's and 2's correlation = -0.0025593359898413016

12's and 3's correlation = 0.0002642724004686509

12's and 4's correlation = -0.02757755126578715

12's and 5's correlation = 0.02641902745162233

12's and 6's correlation = 0.47039078485369296

12's and 7's correlation = -0.027730738168047227

12's and 8's correlation = 0.137643880297355

12's and 9's correlation = -0.0621381491282267

12's and 10's correlation = -0.05966202027010081

12's and 11's correlation = -0.059659613245887824

12's and 12's correlation = 1.0

12's and 13's correlation = -0.02757755126578904

13's length = 207000

13's and 0's correlation = 0.8586276683803444

13's and 1's correlation = 0.7704395100965288

13's and 2's correlation = 0.7723687485791711

13's and 3's correlation = 0.2510744962448216

13's and 4's correlation = 0.9999999999999939

13's and 5's correlation = 0.6830054519596105

13's and 6's correlation = 0.40458584745624016

13's and 7's correlation = 0.9998954404677783

13's and 8's correlation = 0.16607073410371173

13's and 9's correlation = 0.7773243840907337

13's and 10's correlation = 0.7503362413363418

13's and 11's correlation = 0.7503634701459062

13's and 12's correlation = -0.02757755126578904

13's and 13's correlation = 1.0

highly correlated=16

Correlation >= 0.80:

0's and 1's correlation = 0.9293972467530615

0 and 1

0's and 2's correlation = 0.8543281453895268

0 and 2

0's and 4's correlation = 0.8586276683804228

0 and 4

0's and 7's correlation = 0.858710452665223

0 and 7

0's and 10's correlation = 0.8492436973386159

0 and 10

0's and 11's correlation = 0.8492697447131

0 and 11

0's and 13's correlation = 0.8586276683803444

0 and 13

1's and 0's correlation = 0.9293972467530615

1 and 0

1's and 9's correlation = 0.8400320361468672

1 and 9

1's and 10's correlation = 0.9251394552856445

1 and 10

1's and 11's correlation = 0.9251651050274567

1 and 11

2's and 0's correlation = 0.8543281453895268

2 and 0

4's and 0's correlation = 0.8586276683804228

4 and 0

4's and 7's correlation = 0.999895440467772

4 and 7

4's and 13's correlation = 0.9999999999999939

4 and 13

7's and 0's correlation = 0.858710452665223

7 and 0

7's and 4's correlation = 0.999895440467772

7 and 4

7's and 13's correlation = 0.9998954404677783

7 and 13

9's and 1's correlation = 0.8400320361468672

9 and 1

9's and 10's correlation = 0.8892485452460227

9 and 10

9's and 11's correlation = 0.889272282326223

9 and 11

10's and 0's correlation = 0.8492436973386159

10 and 0

10's and 1's correlation = 0.9251394552856445

10 and 1

10's and 9's correlation = 0.8892485452460227

10 and 9

10's and 11's correlation = 0.9999999530341954

10 and 11

11's and 0's correlation = 0.8492697447131

11 and 0

11's and 1's correlation = 0.9251651050274567

11 and 1

11's and 9's correlation = 0.889272282326223

11 and 9

11's and 10's correlation = 0.9999999530341954

11 and 10

13's and 0's correlation = 0.8586276683803444

13 and 0

13's and 4's correlation = 0.9999999999999939

13 and 4

13's and 7's correlation = 0.9998954404677783

13 and 7

highly correlated=16

mean time of 0=0.00024251811170347646 seconds

mean time of 1=0.00014343998858318236 seconds

mean time of 2=0.00011371126497425319 seconds

mean time of 3=0.003150705899593335 seconds

mean time of 4=0.011083516176196111 seconds

mean time of 5=0.26920621901894537 seconds

mean time of 6=0.0027287778071159326 seconds

mean time of 7=0.008420382375302522 seconds

mean time of 8=0.002298474427006671 seconds

mean time of 9=0.0017014273122888833 seconds

mean time of 10=0.007026422311718337 seconds

mean time of 11=0.0021168484204057334 seconds

mean time of 12=0.00099105431837773613 seconds

mean time of 13=0.011820173148371747 seconds

time needed = 949.0403001308441 seconds

414.0

experiment-2

>>>

Xin<Xout for experiment-1:

0's length = 524000

0's and 0's correlation = 1.0

0's and 1's correlation = 0.9147029725663729

0's and 2's correlation = 0.8462126316052869

0's and 3's correlation = 0.36327453038461643

0's and 4's correlation = 0.8411435297023876

0's and 5's correlation = 0.5582376289765365

0's and 6's correlation = 0.4174196806182905

0's and 7's correlation = 0.8408423376299595

0's and 8's correlation = 0.22049940869754825

0's and 9's correlation = 0.7163895567491922

0's and 10's correlation = 0.7660162720675773

0's and 11's correlation = 0.7660539345312173

0's and 12's correlation = 0.0353817549884735

0's and 13's correlation = 0.8411435297024685

1's length = 524000

1's and 0's correlation = 0.9147029725663729

1's and 1's correlation = 1.0

1's and 2's correlation = 0.5586961166360921

1's and 3's correlation = 0.19280880298451528

1's and 4's correlation = 0.7452118655508181

1's and 5's correlation = 0.4934605423039503

1's and 6's correlation = 0.24211368243520015

1's and 7's correlation = 0.7444414303871102

1's and 8's correlation = 0.16754086314207584

1's and 9's correlation = 0.7836179017229642

1's and 10's correlation = 0.8625745270105717

1's and 11's correlation = 0.8626134022796464

1's and 12's correlation = 0.008339801228776303

1's and 13's correlation = 0.7452118655508312

2's length = 524000

2's and 0's correlation = 0.8462126316052869

2's and 1's correlation = 0.5586961166360921

2's and 2's correlation = 1.0

2's and 3's correlation =
0.49131264494349813

2's and 4's correlation =
0.7436739530713763

2's and 5's correlation =
0.49501478953764644

2's and 6's correlation =
0.5374234670855949

2's and 7's correlation =
0.7440716559698152

2's and 8's correlation =
0.23161730578956727

2's and 9's correlation =
0.43700786439066963

2's and 10's correlation =
0.43474955925536013

2's and 11's correlation =
0.4347755949020887

2's and 12's correlation =
0.061616373964921194

2's and 13's correlation =
0.7436739530712504

3's length = 524000

3's and 0's correlation =
0.36327453038461643

3's and 1's correlation =
0.19280880298451528

3's and 2's correlation =
0.49131264494349813

3's and 3's correlation = 1.0

3's and 4's correlation =
0.28416130329358846

3's and 5's correlation =
0.23385313361250848

3's and 6's correlation =
0.20034428574235252

3's and 7's correlation =
0.2847822623287152

3's and 8's correlation =
0.0922462863398861

3's and 9's correlation =
0.1549146137382916

3's and 10's correlation =
0.15252760279818056

3's and 11's correlation =
0.1525371914030508

3's and 12's correlation =
0.024626529494690883

3's and 13's correlation =
0.2841613032936398

4's length = 524000

4's and 0's correlation =
0.8411435297023876

4's and 1's correlation =
0.7452118655508181

4's and 2's correlation =
0.7436739530713763

4's and 3's correlation =
0.28416130329358846

4's and 4's correlation = 1.0

4's and 5's correlation =
0.7633664914475218

4's and 6's correlation =
0.4229277439379608

4's and 7's correlation =
0.9999234803277256

4's and 8's correlation =
0.18579069450336833

4's and 9's correlation =
0.6910368207085968

4's and 10's correlation =
0.68197705521607

4's and 11's correlation =
0.6820166155972657

4's and 12's correlation =
0.031247517634343986

4's and 13's correlation =
0.9999999999998693

5's length = 524000

5's and 0's correlation =
0.5582376289765365

5's and 1's correlation =
0.4934605423039503

5's and 2's correlation =
0.49501478953764644

5's and 3's correlation =
0.23385313361250848

5's and 4's correlation =
0.7633664914475218

5's and 5's correlation = 1.0

5's and 6's correlation =
0.4485687297053337

5's and 7's correlation =
0.7653634799969987

5's and 8's correlation =
0.17940154177796375

5's and 9's correlation =
0.5357349395528394

5's and 10's correlation =
0.5284148050424429

5's and 11's correlation =
0.5284458354455802

5's and 12's correlation =
0.08711206230055392

5's and 13's correlation =
0.7633664914476327

6's length = 524000

6's and 0's correlation =
0.4174196806182905

6's and 1's correlation =
0.24211368243520015

6's and 2's correlation =
0.5374234670855949

6's and 3's correlation =
0.20034428574235252

6's and 4's correlation =
0.4229277439379608

6's and 5's correlation =
0.4485687297053337

6's and 6's correlation = 1.0

6's and 7's correlation =
0.42390185731875996

6's and 8's correlation =
0.36616879722038076

6's and 9's correlation =
0.16528410689899717

6's and 10's correlation =
0.1352668354697989

6's and 11's correlation = 0.13528264224486677

6's and 12's correlation = 0.5553937621588689

6's and 13's correlation = 0.42292774393804117

7's length = 524000

7's and 0's correlation = 0.8408423376299595

7's and 1's correlation = 0.7444414303871102

7's and 2's correlation = 0.7440716559698152

7's and 3's correlation = 0.2847822623287152

7's and 4's correlation = 0.9999234803277256

7's and 5's correlation = 0.7653634799969987

7's and 6's correlation = 0.42390185731875996

7's and 7's correlation = 1.0

7's and 8's correlation = 0.18611370868601643

7's and 9's correlation = 0.6906841863041071

7's and 10's correlation = 0.6815892456567478

7's and 11's correlation = 0.6816287936627371

7's and 12's correlation = 0.03132166502965517

7's and 13's correlation = 0.9999234803275779

8's length = 524000

8's and 0's correlation = 0.22049940869754825

8's and 1's correlation = 0.16754086314207584

8's and 2's correlation = 0.23161730578956727

8's and 3's correlation = 0.0922462863398861

8's and 4's correlation = 0.18579069450336833

8's and 5's correlation = 0.17940154177796375

8's and 6's correlation = 0.36616879722038076

8's and 7's correlation = 0.18611370868601643

8's and 8's correlation = 1.0

8's and 9's correlation = 0.14609901966875727

8's and 10's correlation = 0.15021610102861555

8's and 11's correlation = 0.15022500012318796

8's and 12's correlation = 0.17978652806991866

8's and 13's correlation = 0.18579069450340563

9's length = 524000

9's and 0's correlation = 0.7163895567491922

9's and 1's correlation = 0.7836179017229642

9's and 2's correlation = 0.43700786439066963

9's and 3's correlation = 0.1549146137382916

9's and 4's correlation = 0.6910368207085968

9's and 5's correlation = 0.5357349395528394

9's and 6's correlation = 0.16528410689899717

9's and 7's correlation = 0.6906841863041071

9's and 8's correlation = 0.14609901966875727

9's and 9's correlation = 1.0

9's and 10's correlation = 0.8487960612402459

9's and 11's correlation = 0.848831278477346

9's and 12's correlation = -0.04242703654580858

9's and 13's correlation = 0.691036820708721

10's length = 524000

10's and 0's correlation = 0.7660162720675773

10's and 1's correlation = 0.8625745270105717

10's and 2's correlation = 0.43474955925536013

10's and 3's correlation = 0.15252760279818056

10's and 4's correlation = 0.68197705521607

10's and 5's correlation = 0.5284148050424429

10's and 6's correlation = 0.1352668354697989

10's and 7's correlation = 0.6815892456567478

10's and 8's correlation = 0.15021610102861555

10's and 9's correlation = 0.8487960612402459

10's and 10's correlation = 1.0

10's and 11's correlation = 0.9999999435756264

10's and 12's correlation = -0.040919469040766036

10's and 13's correlation = 0.6819770552161781

11's length = 524000

11's and 0's correlation = 0.7660539345312173

11's and 1's correlation = 0.8626134022796464

11's and 2's correlation = 0.4347755949020887

11's and 3's correlation = 0.1525371914030508

11's and 4's correlation = 0.6820166155972657

11's and 5's correlation =
0.5284458354455802

11's and 6's correlation =
0.13528264224486677

11's and 7's correlation =
0.6816287936627371

11's and 8's correlation =
0.15022500012318796

11's and 9's correlation =
0.848831278477346

11's and 10's correlation =
0.9999999435756264

11's and 11's correlation = 1.0

11's and 12's correlation = -
0.04091819435188639

11's and 13's correlation =
0.6820166155973807

12's length = 524000

12's and 0's correlation =
0.0353817549884735

12's and 1's correlation =
0.008339801228776303

12's and 2's correlation =
0.061616373964921194

12's and 3's correlation =
0.024626529494690883

12's and 4's correlation =
0.031247517634343986

12's and 5's correlation =
0.08711206230055392

12's and 6's correlation =
0.5553937621588689

12's and 7's correlation =
0.03132166502965517

12's and 8's correlation =
0.17978652806991866

12's and 9's correlation = -
0.04242703654580858

12's and 10's correlation = -
0.040919469040766036

12's and 11's correlation = -
0.04091819435188639

12's and 12's correlation = 1.0

12's and 13's correlation =
0.03124751763433466

13's length = 524000

13's and 0's correlation =
0.8411435297024685

13's and 1's correlation =
0.7452118655508312

13's and 2's correlation =
0.7436739530712504

13's and 3's correlation =
0.2841613032936398

13's and 4's correlation =
0.9999999999998693

13's and 5's correlation =
0.7633664914476327

13's and 6's correlation =
0.42292774393804117

13's and 7's correlation =
0.9999234803275779

13's and 8's correlation =
0.18579069450340563

13's and 9's correlation =
0.691036820708721

13's and 10's correlation =
0.6819770552161781

13's and 11's correlation =
0.6820166155973807

13's and 12's correlation =
0.03124751763433466

13's and 13's correlation = 1.0

highly correlated=13

Correlation >= 0.80:

0's and 1's correlation =
0.9147029725663729

0 and 1

0's and 2's correlation =
0.8462126316052869

0 and 2

0's and 4's correlation =
0.8411435297023876

0 and 4

0's and 7's correlation =
0.8408423376299595

0 and 7

0's and 13's correlation =
0.8411435297024685

0 and 13

1's and 0's correlation =
0.9147029725663729

1 and 0

1's and 10's correlation =
0.8625745270105717

1 and 10

1's and 11's correlation =
0.8626134022796464

1 and 11

2's and 0's correlation =
0.8462126316052869

2 and 0

4's and 0's correlation =
0.8411435297023876

4 and 0

4's and 7's correlation =
0.9999234803277256

4 and 7

4's and 13's correlation =
0.9999999999998693

4 and 13

7's and 0's correlation =
0.8408423376299595

7 and 0

7's and 4's correlation =
0.9999234803277256

7 and 4

7's and 13's correlation =
0.9999234803275779

7 and 13

9's and 10's correlation =
0.8487960612402459

9 and 10

9's and 11's correlation = 0.848831278477346

9 and 11

10's and 1's correlation = 0.8625745270105717

10 and 1

10's and 9's correlation = 0.8487960612402459

10 and 9

10's and 11's correlation = 0.9999999435756264

10 and 11

11's and 1's correlation = 0.8626134022796464

11 and 1

11's and 9's correlation = 0.848831278477346

11 and 9

11's and 10's correlation = 0.9999999435756264

11 and 10

13's and 0's correlation = 0.8411435297024685

13 and 0

13's and 4's correlation = 0.9999999999998693

13 and 4

13's and 7's correlation = 0.9999234803275779

13 and 7

highly correlated=13

mean time of 0=0.00020088453329246463 seconds

mean time of 1=0.00013455853207420756 seconds

mean time of 2=0.00011436475142267824 seconds

mean time of 3=0.0021715760231018066 seconds

mean time of 4=0.008353166088803123 seconds

mean time of 5=0.18901440032565867 seconds

mean time of 6=0.0019914639815119387 seconds

mean time of 7=0.005567446737799026 seconds

mean time of 8=0.0019002315652279454 seconds

mean time of 9=0.001734351065322643 seconds

mean time of 10=0.006023012636272052 seconds

mean time of 11=0.002162705850965194 seconds

mean time of 12=0.0009752604342598951 seconds

mean time of 13=0.008783309013788937 seconds

time needed = 2420.3043961524963 seconds

1048.0

experiment-1

>>>

Output for 500 nodes:

Xin>Xout for experiment-2:

0's length = 1145000

0's and 0's correlation = 1.0

0's and 1's correlation = 0.8111198421992727

0's and 2's correlation = 0.9459834674687513

0's and 3's correlation = 0.5292832994142793

0's and 4's correlation = 0.8460261232237435

0's and 5's correlation = 0.5340124087455534

0's and 6's correlation = 0.310834492316494

0's and 7's correlation = 0.847569237115191

0's and 8's correlation = 0.08545340817398724

0's and 9's correlation = 0.7016582000771745

0's and 10's correlation = 0.7150085432061523

0's and 11's correlation = 0.7153001216483984

0's and 12's correlation = 0.005281621394234876

0's and 13's correlation = 0.8460261232236794

1's length = 1145000

1's and 0's correlation = 0.8111198421992727

1's and 1's correlation = 1.0

1's and 2's correlation = 0.5776791736389305

1's and 3's correlation = 0.24984523172698148

1's and 4's correlation = 0.7722039773387452

1's and 5's correlation = 0.46619549699886864

1's and 6's correlation = 0.238464669093071

1's and 7's correlation = 0.7725972607741814

1's and 8's correlation = 0.09499359786038786

1's and 9's correlation = 0.8470668704273643

1's and 10's correlation = 0.9105617866977945

1's and 11's correlation = 0.9109024113815275

1's and 12's correlation = 0.004329015188168821

1's and 13's correlation =
0.7722039773388407

2's length = 1145000

2's and 0's correlation =
0.9459834674687513

2's and 1's correlation =
0.5776791736389305

2's and 2's correlation = 1.0

2's and 3's correlation =
0.6001766589084558

2's and 4's correlation =
0.7526682249336257

2's and 5's correlation =
0.4868478184450224

2's and 6's correlation =
0.30161604252431856

2's and 7's correlation =
0.754603801231397

2's and 8's correlation =
0.06660203340592769

2's and 9's correlation =
0.5096884836656266

2's and 10's correlation =
0.49312338885814033

2's and 11's correlation =
0.4933415009081051

2's and 12's correlation =
0.0049713888510439065

2's and 13's correlation =
0.7526682249337285

3's length = 1145000

3's and 0's correlation =
0.5292832994142793

3's and 1's correlation =
0.24984523172698148

3's and 2's correlation =
0.6001766589084558

3's and 3's correlation = 1.0

3's and 4's correlation =
0.2595665697645279

3's and 5's correlation =
0.25372535729488704

3's and 6's correlation =
0.08932617611061859

3's and 7's correlation =
0.26143098557226935

3's and 8's correlation =
0.002101448427751053

3's and 9's correlation =
0.188511611229587

3's and 10's correlation =
0.17553280737470248

3's and 11's correlation =
0.1755976453836496

3's and 12's correlation = -
0.002609378841962061

3's and 13's correlation =
0.2595665697645661

4's length = 1145000

4's and 0's correlation =
0.8460261232237435

4's and 1's correlation =
0.7722039773387452

4's and 2's correlation =
0.7526682249336257

4's and 3's correlation =
0.2595665697645279

4's and 4's correlation = 1.0

4's and 5's correlation =
0.554035268063344

4's and 6's correlation =
0.32138317746810025

4's and 7's correlation =
0.9998865556363089

4's and 8's correlation =
0.09284771853377823

4's and 9's correlation =
0.7502741164968918

4's and 10's correlation =
0.7683458450080098

4's and 11's correlation =
0.7686982041520166

4's and 12's correlation =
0.008451184508886156

4's and 13's correlation =
0.9999999999997065

5's length = 1145000

5's and 0's correlation =
0.5340124087455534

5's and 1's correlation =
0.46619549699886864

5's and 2's correlation =
0.4868478184450224

5's and 3's correlation =
0.25372535729488704

5's and 4's correlation =
0.554035268063344

5's and 5's correlation = 1.0

5's and 6's correlation =
0.48082082167600604

5's and 7's correlation =
0.5591033332331813

5's and 8's correlation =
0.13453359436359896

5's and 9's correlation =
0.45301588866033704

5's and 10's correlation =
0.4882857629980496

5's and 11's correlation =
0.4885141873951835

5's and 12's correlation =
0.04898299405161688

5's and 13's correlation =
0.5540352680634187

6's length = 1145000

6's and 0's correlation =
0.310834492316494

6's and 1's correlation =
0.238464669093071

6's and 2's correlation =
0.30161604252431856

6's and 3's correlation =
0.08932617611061859

6's and 4's correlation =
0.32138317746810025

6's and 5's correlation =
0.48082082167600604

6's and 6's correlation = 1.0

6's and 7's correlation = 0.32411419853803375

6's and 8's correlation = 0.35065115761780546

6's and 9's correlation = 0.18954422588255096

6's and 10's correlation = 0.17882542863104167

6's and 11's correlation = 0.1789634120325536

6's and 12's correlation = 0.40653040103649857

6's and 13's correlation = 0.32138317746811135

7's length = 1145000

7's and 0's correlation = 0.847569237115191

7's and 1's correlation = 0.7725972607741814

7's and 2's correlation = 0.754603801231397

7's and 3's correlation = 0.26143098557226935

7's and 4's correlation = 0.9998865556363089

7's and 5's correlation = 0.5591033332331813

7's and 6's correlation = 0.32411419853803375

7's and 7's correlation = 1.0

7's and 8's correlation = 0.09356872665973803

7's and 9's correlation = 0.7502687167210117

7's and 10's correlation = 0.7684415216624048

7's and 11's correlation = 0.7687940182961068

7's and 12's correlation = 0.008401124394577447

7's and 13's correlation = 0.9998865556359962

8's length = 1145000

8's and 0's correlation = 0.08545340817398724

8's and 1's correlation = 0.09499359786038786

8's and 2's correlation = 0.06660203340592769

8's and 3's correlation = 0.002101448427751053

8's and 4's correlation = 0.09284771853377823

8's and 5's correlation = 0.13453359436359896

8's and 6's correlation = 0.35065115761780546

8's and 7's correlation = 0.09356872665973803

8's and 8's correlation = 1.0

8's and 9's correlation = 0.07588425465693201

8's and 10's correlation = 0.08434410125680313

8's and 11's correlation = 0.08439632764008725

8's and 12's correlation = 0.14917099534361442

8's and 13's correlation = 0.09284771853379861

9's length = 1145000

9's and 0's correlation = 0.7016582000771745

9's and 1's correlation = 0.8470668704273643

9's and 2's correlation = 0.5096884836656266

9's and 3's correlation = 0.188511611229587

9's and 4's correlation = 0.7502741164968918

9's and 5's correlation = 0.45301588866033704

9's and 6's correlation = 0.18954422588255096

9's and 7's correlation = 0.7502687167210117

9's and 8's correlation = 0.07588425465693201

9's and 9's correlation = 1.0

9's and 10's correlation = 0.8421895156147586

9's and 11's correlation = 0.842507129597902

9's and 12's correlation = -0.0191942534686746774

9's and 13's correlation = 0.7502741164970396

10's length = 1145000

10's and 0's correlation = 0.7150085432061523

10's and 1's correlation = 0.9105617866977945

10's and 2's correlation = 0.49312338885814033

10's and 3's correlation = 0.17553280737470248

10's and 4's correlation = 0.7683458450080098

10's and 5's correlation = 0.4882857629980496

10's and 6's correlation = 0.17882542863104167

10's and 7's correlation = 0.7684415216624048

10's and 8's correlation = 0.08434410125680313

10's and 9's correlation = 0.8421895156147586

10's and 10's correlation = 1.0

10's and 11's correlation = 0.9999887450192969

10's and 12's correlation = -0.011510778020878762

10's and 13's correlation = 0.7683458450081565

11's length = 1145000

11's and 0's correlation =
0.7153001216483984

11's and 1's correlation =
0.9109024113815275

11's and 2's correlation =
-0.4933415009081051

11's and 3's correlation =
0.1755976453836496

11's and 4's correlation =
0.7686982041520166

11's and 5's correlation =
0.4885141873951835

11's and 6's correlation =
0.1789634120325536

11's and 7's correlation =
0.7687940182961068

11's and 8's correlation =
0.08439632764008725

11's and 9's correlation =
0.842507129597902

11's and 10's correlation =
0.9999887450192969

11's and 11's correlation = 1.0

11's and 12's correlation = -
0.01149914056200804

11's and 13's correlation =
0.7686982041521626

12's length = 1145000

12's and 0's correlation =
0.005281621394234876

12's and 1's correlation =
0.004329015188168821

12's and 2's correlation =
0.0049713888510439065

12's and 3's correlation = -
0.002609378841962061

12's and 4's correlation =
0.008451184508886156

12's and 5's correlation =
0.04898299405161688

12's and 6's correlation =
0.40653040103649857

12's and 7's correlation =
0.008401124394577447

12's and 8's correlation =
0.14917099534361442

12's and 9's correlation = -
0.0191942534668674677

12's and 10's correlation = -
0.011510778020878762

12's and 11's correlation = -
0.01149914056200804

12's and 12's correlation = 1.0

12's and 13's correlation =
0.008451184508894437

13's length = 1145000

13's and 0's correlation =
0.8460261232236794

13's and 1's correlation =
0.7722039773388407

13's and 2's correlation =
0.7526682249337285

13's and 3's correlation =
0.2595665697645661

13's and 4's correlation =
0.9999999999997065

13's and 5's correlation =
0.5540352680634187

13's and 6's correlation =
0.32138317746811135

13's and 7's correlation =
0.9998865556359962

13's and 8's correlation =
0.09284771853379861

13's and 9's correlation =
0.7502741164970396

13's and 10's correlation =
0.7683458450081565

13's and 11's correlation =
0.7686982041521626

13's and 12's correlation =
0.008451184508894437

13's and 13's correlation = 1.0

highly correlated=14

Correlation >= 0.80:

0's and 1's correlation =
0.8111198421992727

0 and 1

0's and 2's correlation =
0.9459834674687513

0 and 2

0's and 4's correlation =
0.8460261232237435

0 and 4

0's and 7's correlation =
0.847569237115191

0 and 7

0's and 13's correlation =
0.8460261232236794

0 and 13

1's and 0's correlation =
0.8111198421992727

1 and 0

1's and 9's correlation =
0.8470668704273643

1 and 9

1's and 10's correlation =
0.9105617866977945

1 and 10

1's and 11's correlation =
0.9109024113815275

1 and 11

2's and 0's correlation =
0.9459834674687513

2 and 0

4's and 0's correlation =
0.8460261232237435

4 and 0

4's and 7's correlation =
0.9998865556363089

4 and 7

4's and 13's correlation =
0.9999999999997065

4 and 13

7's and 0's correlation = 0.847569237115191

7 and 0

7's and 4's correlation = 0.9998865556363089

7 and 4

7's and 13's correlation = 0.9998865556359962

7 and 13

9's and 1's correlation = 0.8470668704273643

9 and 1

9's and 10's correlation = 0.8421895156147586

9 and 10

9's and 11's correlation = 0.842507129597902

9 and 11

10's and 1's correlation = 0.9105617866977945

10 and 1

10's and 9's correlation = 0.8421895156147586

10 and 9

10's and 11's correlation = 0.9999887450192969

10 and 11

11's and 1's correlation = 0.9109024113815275

11 and 1

11's and 9's correlation = 0.842507129597902

11 and 9

11's and 10's correlation = 0.9999887450192969

11 and 10

13's and 0's correlation = 0.8460261232236794

13 and 0

13's and 4's correlation = 0.9999999999997065

13 and 4

13's and 7's correlation = 0.9998865556359962

13 and 7

highly correlated=14

mean time of 0=0.0009675448638382958 seconds

mean time of 1=0.0005115683942903078 seconds

mean time of 2=0.0005874616089866671 seconds

mean time of 3=0.07493159812610743 seconds

mean time of 4=0.2541895923656147 seconds

mean time of 5=28.486266685885635 seconds

mean time of 6=0.056427235582509935 seconds

mean time of 7=0.1989421287478318 seconds

mean time of 8=0.06225350736010023 seconds

mean time of 9=0.020625131827775048 seconds

mean time of 10=0.11107209686629116 seconds

mean time of 11=0.015081341714317622 seconds

mean time of 12=0.0063000589479004976 seconds

mean time of 13=0.2728557083804535 seconds

time needed = 70907.80959439278 seconds

458.0

experiment-2

>>>

Xin>Xout for experiment-1:

0's length = 2885000

0's and 0's correlation = 1.0

0's and 1's correlation = 0.799845704367003

0's and 2's correlation = 0.9371631444368114

0's and 3's correlation = 0.4728604757027937

0's and 4's correlation = 0.8365374102133402

0's and 5's correlation = 0.5244544668852887

0's and 6's correlation = 0.3465431164020125

0's and 7's correlation = 0.8371827858521182

0's and 8's correlation = 0.10092036250087322

0's and 9's correlation = 0.6296208603271134

0's and 10's correlation = 0.6587753712201625

0's and 11's correlation = 0.6592242874901275

0's and 12's correlation = 0.026239316906542645

0's and 13's correlation = 0.8365374102130969

1's length = 2885000

1's and 0's correlation = 0.799845704367003

1's and 1's correlation = 1.0

1's and 2's correlation = 0.5401792907775788

1's and 3's correlation = 0.20483101136765702

1's and 4's correlation = 0.7432328229619494

1's and 5's correlation = 0.46217883367818924

1's and 6's correlation = 0.2395564533194658

1's and 7's correlation = 0.7427489365514252

1's and 8's correlation = 0.10059929610450934

1's and 9's correlation = 0.7914614345758367

1's and 10's correlation = 0.8666376731726271

1's and 11's correlation = 0.8671782987929993

1's and 12's correlation = 0.022519724648848147

1's and 13's correlation = 0.7432328229624665

2's length = 2885000

2's and 0's correlation = 0.9371631444368114

2's and 1's correlation = 0.5401792907775788

2's and 2's correlation = 1.0

2's and 3's correlation = 0.5439334238581185

2's and 4's correlation = 0.7408801182067063

2's and 5's correlation = 0.46668068424038356

2's and 6's correlation = 0.34663809051584143

2's and 7's correlation = 0.742066277725757

2's and 8's correlation = 0.08302369572017501

2's and 9's correlation = 0.42272723675672036

2's and 10's correlation = 0.41990592204050325

2's and 11's correlation = 0.4202210903623046

2's and 12's correlation = 0.02369980398698171

2's and 13's correlation = 0.7408801182071127

3's length = 2885000

3's and 0's correlation = 0.4728604757027937

3's and 1's correlation = 0.20483101136765702

3's and 2's correlation = 0.5439334238581185

3's and 3's correlation = 1.0

3's and 4's correlation = 0.24013944405037918

3's and 5's correlation = 0.19907570528989563

3's and 6's correlation = 0.08429612135458345

3's and 7's correlation = 0.24132406007705692

3's and 8's correlation = 0.005956567292895791

3's and 9's correlation = 0.13789299032328553

3's and 10's correlation = 0.1354022621711893

3's and 11's correlation = 0.13549982721624176

3's and 12's correlation = 0.000615026376650187

3's and 13's correlation = 0.2401394440505072

4's length = 2885000

4's and 0's correlation = 0.8365374102133402

4's and 1's correlation = 0.7432328229619494

4's and 2's correlation = 0.7408801182067063

4's and 3's correlation = 0.24013944405037918

4's and 4's correlation = 1.0

4's and 5's correlation = 0.6146259386143138

4's and 6's correlation = 0.3375281808999788

4's and 7's correlation = 0.9998958068741238

4's and 8's correlation = 0.10320123426203497

4's and 9's correlation = 0.6614915609332722

4's and 10's correlation = 0.6974753953749813

4's and 11's correlation = 0.6979966684364808

4's and 12's correlation = 0.028876754683603706

4's and 13's correlation = 0.9999999999990979

5's length = 2885000

5's and 0's correlation = 0.5244544668852887

5's and 1's correlation = 0.46217883367818924

5's and 2's correlation = 0.46668068424038356

5's and 3's correlation = 0.19907570528989563

5's and 4's correlation = 0.6146259386143138

5's and 5's correlation = 1.0

5's and 6's correlation = 0.4519416649783323

5's and 7's correlation = 0.6188612871132158

5's and 8's correlation = 0.1283671934803684

5's and 9's correlation = 0.458221668665994

5's and 10's correlation = 0.49651010498612147

5's and 11's correlation = 0.4968789010645577

5's and 12's correlation = 0.07118069169939367

5's and 13's correlation = 0.6146259386148029

6's length = 2885000

6's and 0's correlation = 0.3465431164020125

6's and 1's correlation = 0.2395564533194658

6's and 2's correlation = 0.34663809051584143

6's and 3's correlation = 0.08429612135458345

6's and 4's correlation = 0.3375281808999788

6's and 5's correlation = 0.4519416649783323

6's and 6's correlation = 1.0

6's and 7's correlation = 0.33976501588560337

6's and 8's correlation = 0.3301057911536692

6's and 9's correlation = 0.15312759476172896

6's and 10's correlation = 0.14400166681288235

6's and 11's correlation = 0.1441656642060153

6's and 12's correlation = 0.4507051712110155

6's and 13's correlation = 0.33752818089977865

7's length = 2885000

7's and 0's correlation = 0.8371827858521182

7's and 1's correlation = 0.7427489365514252

7's and 2's correlation = 0.742066277725757

7's and 3's correlation = 0.24132406007705692

7's and 4's correlation = 0.9998958068741238

7's and 5's correlation = 0.6188612871132158

7's and 6's correlation = 0.33976501588560337

7's and 7's correlation = 1.0

7's and 8's correlation = 0.10379394947981226

7's and 9's correlation = 0.6615282556214057

7's and 10's correlation = 0.6972395900822007

7's and 11's correlation = 0.6977606900819165

7's and 12's correlation = 0.02899995180536922

7's and 13's correlation = 0.9998958068732315

8's length = 2885000

8's and 0's correlation = 0.10092036250087322

8's and 1's correlation = 0.10059929610450934

8's and 2's correlation = 0.08302369572017501

8's and 3's correlation = 0.005956567292895791

8's and 4's correlation = 0.10320123426203497

8's and 5's correlation = 0.1283671934803684

8's and 6's correlation = 0.3301057911536692

8's and 7's correlation = 0.10379394947981226

8's and 8's correlation = 1.0

8's and 9's correlation = 0.07033438291239912

8's and 10's correlation = 0.08007639820015476

8's and 11's correlation = 0.08014513909300823

8's and 12's correlation = 0.16840589526839264

8's and 13's correlation = 0.10320123426210501

9's length = 2885000

9's and 0's correlation = 0.6296208603271134

9's and 1's correlation = 0.7914614345758367

9's and 2's correlation = 0.42272723675672036

9's and 3's correlation = 0.13789299032328553

9's and 4's correlation = 0.6614915609332722

9's and 5's correlation = 0.458221668665994

9's and 6's correlation = 0.15312759476172896

9's and 7's correlation = 0.6615282556214057

9's and 8's correlation = 0.07033438291239912

9's and 9's correlation = 1.0

9's and 10's correlation = 0.795660650662308

9's and 11's correlation = 0.796134947300241

9's and 12's correlation = -0.012287056288931763

9's and 13's correlation = 0.6614915609335947

10's length = 2885000

10's and 0's correlation = 0.6587753712201625

10's and 1's correlation = 0.8666376731726271

10's and 2's correlation = 0.41990592204050325

10's and 3's correlation = 0.13540226217111893

10's and 4's correlation = 0.6974753953749813

10's and 5's correlation = 0.49651010498612147

10's and 6's correlation = 0.14400166681288235

10's and 7's correlation = 0.6972395900822007

10's and 8's correlation = 0.08007639820015476

10's and 9's correlation = 0.795660650662308

10's and 10's correlation = 1.0

10's and 11's correlation = 0.9999840312724776

10's and 12's correlation = -0.008441368237798166

10's and 13's correlation = 0.6974753953753495

11's length = 2885000

11's and 0's correlation = 0.6592242874901275

11's and 1's correlation = 0.8671782987929993

11's and 2's correlation = 0.4202210903623046

11's and 3's correlation = 0.13549982721624176

11's and 4's correlation = 0.6979966684364808

11's and 5's correlation = 0.4968789010645577

11's and 6's correlation = 0.1441656642060153

11's and 7's correlation = 0.6977606900819165

11's and 8's correlation = 0.08014513909300823

11's and 9's correlation = 0.796134947300241

11's and 10's correlation = 0.9999840312724776

11's and 11's correlation = 1.0

11's and 12's correlation = -0.008428114610071515

11's and 13's correlation = 0.6979966684368241

12's length = 2885000

12's and 0's correlation = 0.026239316906542645

12's and 1's correlation = 0.022519724648848147

12's and 2's correlation = 0.02369980398698171

12's and 3's correlation = 0.000615026376650187

12's and 4's correlation = 0.028876754683603706

12's and 5's correlation = 0.07118069169939367

12's and 6's correlation = 0.4507051712110155

12's and 7's correlation = 0.02899995180536922

12's and 8's correlation = 0.16840589526839264

12's and 9's correlation = -0.012287056288931763

12's and 10's correlation = -0.008441368237798166

12's and 11's correlation = -0.008428114610071515

12's and 12's correlation = 1.0

12's and 13's correlation = 0.028876754683627697

13's length = 2885000

13's and 0's correlation = 0.8365374102130969

13's and 1's correlation = 0.7432328229624665

13's and 2's correlation = 0.7408801182071127

13's and 3's correlation = 0.2401394440505072

13's and 4's correlation = 0.9999999999990979

13's and 5's correlation = 0.6146259386148029

13's and 6's correlation = 0.33752818089977865

13's and 7's correlation = 0.9998958068732315

13's and 8's correlation = 0.10320123426210501

13's and 9's correlation = 0.6614915609335947

13's and 10's correlation = 0.6974753953753495

13's and 11's correlation = 0.6979966684368241

13's and 12's correlation = 0.028876754683627697

13's and 13's correlation = 1.0

highly correlated=10

Correlation >= 0.80:

0's and 2's correlation = 0.9371631444368114

0 and 2

0's and 4's correlation = 0.8365374102133402

0 and 4

0's and 7's correlation = 0.8371827858521182

0 and 7

0's and 13's correlation = 0.8365374102130969

0 and 13

1's and 10's correlation = 0.8666376731726271

1 and 10

1's and 11's correlation = 0.8671782987929993

1 and 11

2's and 0's correlation = 0.9371631444368114

2 and 0

4's and 0's correlation = 0.8365374102133402

4 and 0

4's and 7's correlation = 0.9998958068741238

4 and 7

4's and 13's correlation = 0.9999999999990979

4 and 13

7's and 0's correlation = 0.8371827858521182

7 and 0

7's and 4's correlation = 0.9998958068741238

7 and 4

7's and 13's correlation = 0.9998958068732315

7 and 13

10's and 1's correlation = 0.8666376731726271

10 and 1

10's and 11's correlation = 0.9999840312724776

10 and 11

11's and 1's correlation = 0.8671782987929993

11 and 1

11's and 10's correlation = 0.9999840312724776

11 and 10

13's and 0's correlation = 0.8365374102130969

13 and 0

13's and 4's correlation = 0.9999999999990979

13 and 4

13's and 7's correlation = 0.9998958068732315

13 and 7

highly correlated=10

mean time of 0=0.0009155154848016114 seconds

mean time of 1=0.0004527742362724846 seconds

mean time of 2=0.0005096556615581545 seconds

mean time of 3=0.04084783430942423 seconds

mean time of 4=0.1955754958984137 seconds

mean time of 5=31.389896091348792 seconds

mean time of 6=0.03620994140618389 seconds

mean time of 7=0.12400463681080519 seconds

mean time of 8=0.07382246931462809 seconds

mean time of 9=0.043404088565753694 seconds

mean time of 10=0.10309671863939361 seconds

mean time of 11=0.03675810580030471 seconds

mean time of 12=0.005057989579965998 seconds

mean time of 13=0.21780053490782528 seconds

time needed = 120278.09518170357 seconds

1154.0

experiment-1

>>>

Xin==Xout for experiment-2:

0's length = 92500

0's and 0's correlation = 1.0

0's and 1's correlation = 0.9049884424438155

0's and 2's correlation = 0.8976975742375832

0's and 3's correlation = 0.37953422645626644

0's and 4's correlation = 0.7908331283264277

0's and 5's correlation = 0.5566140216741702

0's and 6's correlation = 0.24870098205681318

0's and 7's correlation = 0.793254206906016

0's and 8's correlation = 0.08513002050000029

0's and 9's correlation = 0.7047745022707965

0's and 10's correlation = 0.8497612630627476

0's and 11's correlation = 0.8498218779655295

0's and 12's correlation = -0.010229195838639639

0's and 13's correlation = 0.7908331283264143

1's length = 92500

1's and 0's correlation = 0.9049884424438155

1's and 1's correlation = 1.0

1's and 2's correlation = 0.6249535928055845

1's and 3's correlation = 0.23375019960990515

1's and 4's correlation = 0.7100704329894768

1's and 5's correlation = 0.49801491897512307

1's and 6's correlation = 0.17515488949216512

1's and 7's correlation = 0.7117272955396562

1's and 8's correlation = 0.06984417710383266

1's and 9's correlation =
0.7683072964906383

1's and 10's correlation =
0.9397049691996812

1's and 11's correlation =
0.9397653536129761

1's and 12's correlation = -
0.014165704511511704

1's and 13's correlation =
0.7100704329894413

2's length = 92500

2's and 0's correlation =
0.8976975742375832

2's and 1's correlation =
0.6249535928055845

2's and 2's correlation = 1.0

2's and 3's correlation =
0.4543448721416899

2's and 4's correlation =
0.7157540207195835

2's and 5's correlation =
0.5055892342621381

2's and 6's correlation =
0.2749555000707841

2's and 7's correlation =
0.7184806579352299

2's and 8's correlation =
0.08387526720556018

2's and 9's correlation =
0.4975248928306723

2's and 10's correlation =
0.5860593149167385

2's and 11's correlation =
0.5861080029258307

2's and 12's correlation = -
0.004099233191334014

2's and 13's correlation =
0.7157540207195627

3's length = 92500

3's and 0's correlation =
0.37953422645626644

3's and 1's correlation =
0.23375019960990515

3's and 2's correlation =
0.4543448721416899

3's and 3's correlation = 1.0

3's and 4's correlation =
0.21574089613074676

3's and 5's correlation =
0.25245142992980396

3's and 6's correlation =
0.04260786471021757

3's and 7's correlation =
0.21829081592477126

3's and 8's correlation =
0.003363822179098883

3's and 9's correlation =
0.13766754030929196

3's and 10's correlation =
0.20915231654309807

3's and 11's correlation =
0.20916567485746893

3's and 12's correlation = -
0.0028420111984691987

3's and 13's correlation =
0.21574089613074734

4's length = 92500

4's and 0's correlation =
0.7908331283264277

4's and 1's correlation =
0.7100704329894768

4's and 2's correlation =
0.7157540207195835

4's and 3's correlation =
0.21574089613074676

4's and 4's correlation = 1.0

4's and 5's correlation =
0.5438061225103176

4's and 6's correlation =
0.28790717241982305

4's and 7's correlation =
0.9998590504248833

4's and 8's correlation =
0.09438294139559328

4's and 9's correlation =
0.77801763603575

4's and 10's correlation =
0.7709702810604583

4's and 11's correlation =
0.7710392978748124

4's and 12's correlation = -
0.016648027291200483

4's and 13's correlation =
1.000000000000012

5's length = 92500

5's and 0's correlation =
0.5566140216741702

5's and 1's correlation =
0.49801491897512307

5's and 2's correlation =
0.5055892342621381

5's and 3's correlation =
0.25245142992980396

5's and 4's correlation =
0.5438061225103176

5's and 5's correlation = 1.0

5's and 6's correlation =
0.4113187880077557

5's and 7's correlation =
0.550222468965297

5's and 8's correlation =
0.1196009236969877

5's and 9's correlation =
0.4585944445136732

5's and 10's correlation =
0.5379181195288668

5's and 11's correlation =
0.5379671699031235

5's and 12's correlation = -
0.011020866389891094

5's and 13's correlation =
0.5438061225103175

6's length = 92500

6's and 0's correlation =
0.24870098205681318

6's and 1's correlation =
0.17515488949216512

6's and 2's correlation =
0.2749555000707841

6's and 3's correlation = 0.04260786471021757

6's and 4's correlation = 0.28790717241982305

6's and 5's correlation = 0.4113187880077557

6's and 6's correlation = 1.0

6's and 7's correlation = 0.2905641458549191

6's and 8's correlation = 0.35667439320712363

6's and 9's correlation = 0.15706571588879625

6's and 10's correlation = 0.14122411149594039

6's and 11's correlation = 0.14125217366065554

6's and 12's correlation = 0.3079982708184196

6's and 13's correlation = 0.28790717241983105

7's length = 92500

7's and 0's correlation = 0.793254206906016

7's and 1's correlation = 0.7117272955396562

7's and 2's correlation = 0.7184806579352299

7's and 3's correlation = 0.21829081592477126

7's and 4's correlation = 0.9998590504248833

7's and 5's correlation = 0.550222468965297

7's and 6's correlation = 0.2905641458549191

7's and 7's correlation = 1.0

7's and 8's correlation = 0.09505791386653707

7's and 9's correlation = 0.7777175281754104

7's and 10's correlation = 0.7723927100148651

7's and 11's correlation = 0.7724617472783282

7's and 12's correlation = -0.01690171950892358

7's and 13's correlation = 0.99985905042489

8's length = 92500

8's and 0's correlation = 0.08513002050000029

8's and 1's correlation = 0.06984417710383266

8's and 2's correlation = 0.08387526720556018

8's and 3's correlation = 0.003363822179098883

8's and 4's correlation = 0.09438294139559328

8's and 5's correlation = 0.1196009236969877

8's and 6's correlation = 0.35667439320712363

8's and 7's correlation = 0.09505791386653707

8's and 8's correlation = 1.0

8's and 9's correlation = 0.07658145263749269

8's and 10's correlation = 0.0694886452720287

8's and 11's correlation = 0.06949935000126554

8's and 12's correlation = 0.09089576112237674

8's and 13's correlation = 0.09438294139559436

9's length = 92500

9's and 0's correlation = 0.7047745022707965

9's and 1's correlation = 0.7683072964906383

9's and 2's correlation = 0.4975248928306723

9's and 3's correlation = 0.13766754030929196

9's and 4's correlation = 0.77801763603575

9's and 5's correlation = 0.4585944445136732

9's and 6's correlation = 0.15706571588879625

9's and 7's correlation = 0.7777175281754104

9's and 8's correlation = 0.07658145263749269

9's and 9's correlation = 1.0

9's and 10's correlation = 0.8594730720363238

9's and 11's correlation = 0.8595268286374447

9's and 12's correlation = -0.03670773550278532

9's and 13's correlation = 0.7780176360357558

10's length = 92500

10's and 0's correlation = 0.8497612630627476

10's and 1's correlation = 0.9397049691996812

10's and 2's correlation = 0.5860593149167385

10's and 3's correlation = 0.20915231654309807

10's and 4's correlation = 0.7709702810604583

10's and 5's correlation = 0.5379181195288668

10's and 6's correlation = 0.14122411149594039

10's and 7's correlation = 0.7723927100148651

10's and 8's correlation = 0.0694886452720287

10's and 9's correlation = 0.8594730720363238

10's and 10's correlation = 1.0

10's and 11's correlation = 0.9999981232293972

10's and 12's correlation = -0.026681562234115868

10's and 13's correlation = 0.7709702810604695

11's length = 92500

11's and 0's correlation = 0.8498218779655295

11's and 1's correlation = 0.9397653536129761

11's and 2's correlation = 0.5861080029258307

11's and 3's correlation = 0.20916567485746893

11's and 4's correlation = 0.7710392978748124

11's and 5's correlation = 0.5379671699031235

11's and 6's correlation = 0.14125217366065554

11's and 7's correlation = 0.7724617472783282

11's and 8's correlation = 0.06949935000126554

11's and 9's correlation = 0.8595268286374447

11's and 10's correlation = 0.9999981232293972

11's and 11's correlation = 1.0

11's and 12's correlation = -0.02668104262420946

11's and 13's correlation = 0.7710392978748108

12's length = 92500

12's and 0's correlation = -0.010229195838639639

12's and 1's correlation = -0.014165704511511704

12's and 2's correlation = -0.004099233191334014

12's and 3's correlation = -0.0028420111984691987

12's and 4's correlation = -0.016648027291200483

12's and 5's correlation = -0.011020866389891094

12's and 6's correlation = 0.3079982708184196

12's and 7's correlation = -0.01690171950892358

12's and 8's correlation = 0.09089576112237674

12's and 9's correlation = -0.03670773550278532

12's and 10's correlation = -0.026681562234115868

12's and 11's correlation = -0.02668104262420946

12's and 12's correlation = 1.0

12's and 13's correlation = -0.016648027291199876

13's length = 92500

13's and 0's correlation = 0.7908331283264143

13's and 1's correlation = 0.7100704329894413

13's and 2's correlation = 0.7157540207195627

13's and 3's correlation = 0.21574089613074734

13's and 4's correlation = 1.000000000000012

13's and 5's correlation = 0.5438061225103175

13's and 6's correlation = 0.28790717241983105

13's and 7's correlation = 0.99985905042489

13's and 8's correlation = 0.09438294139559436

13's and 9's correlation = 0.7780176360357558

13's and 10's correlation = 0.7709702810604695

13's and 11's correlation = 0.7710392978748108

13's and 12's correlation = -0.016648027291199876

13's and 13's correlation = 1.0

highly correlated=12

Correlation >= 0.80:

0's and 1's correlation = 0.9049884424438155

0 and 1

0's and 2's correlation = 0.8976975742375832

0 and 2

0's and 10's correlation = 0.8497612630627476

0 and 10

0's and 11's correlation = 0.8498218779655295

0 and 11

1's and 0's correlation = 0.9049884424438155

1 and 0

1's and 10's correlation = 0.9397049691996812

1 and 10

1's and 11's correlation = 0.9397653536129761

1 and 11

2's and 0's correlation = 0.8976975742375832

2 and 0

4's and 7's correlation = 0.9998590504248833

4 and 7

4's and 13's correlation = 1.000000000000012

4 and 13

7's and 4's correlation = 0.9998590504248833

7 and 4

7's and 13's correlation = 0.99985905042489

7 and 13

9's and 10's correlation = 0.8594730720363238

9 and 10

9's and 11's correlation = 0.8595268286374447

9 and 11

10's and 0's correlation = 0.8497612630627476

10 and 0

10's and 1's correlation = 0.9397049691996812

10 and 1

10's and 9's correlation = 0.8594730720363238

10 and 9

10's and 11's correlation = 0.9999981232293972

10 and 11

11's and 0's correlation = 0.8498218779655295

11 and 0

11's and 1's correlation = 0.9397763536129761

11 and 1

11's and 9's correlation = 0.8595268286374447

11 and 9

11's and 10's correlation = 0.9999981232293972

11 and 10

13's and 4's correlation = 1.000000000000012

13 and 4

13's and 7's correlation = 0.99985905042489

13 and 7

highly correlated=12

mean time of 0=0.0010137184246166331 seconds

mean time of 1=0.000675751711871173 seconds

mean time of 2=0.00042275480321935703 seconds

mean time of 3=0.04628853540162783 seconds

mean time of 4=0.2638752164067449 seconds

mean time of 5=31.95725946039767 seconds

mean time of 6=0.06364967500841295 seconds

mean time of 7=0.2228732598794473 seconds

mean time of 8=0.021647747142894847 seconds

mean time of 9=0.006609852249557908 seconds

mean time of 10=0.11406543834789379 seconds

mean time of 11=0.008045190089457744 seconds

mean time of 12=0.006525450783806878 seconds

mean time of 13=0.29617952913851353 seconds

time needed = 6276.750885486603 seconds

37.0

experiment-2

Xin==Xout for experiment-1

0's length = 380000

0's and 0's correlation = 1.0

0's and 1's correlation = 0.8887231236028617

0's and 2's correlation = 0.8931636946141123

0's and 3's correlation = 0.3965125637186587

0's and 4's correlation = 0.8057574470407728

0's and 5's correlation = 0.4951314037374301

0's and 6's correlation = 0.31839398317050754

0's and 7's correlation = 0.8063055561474188

0's and 8's correlation = 0.11911157275940987

0's and 9's correlation = 0.6392564190105747

0's and 10's correlation = 0.7590909210474384

0's and 11's correlation = 0.7593936971324109

0's and 12's correlation = 0.02417084718709873

0's and 13's correlation = 0.8057574470406482

1's length = 380000

1's and 0's correlation = 0.8887231236028617

1's and 1's correlation = 1.0

1's and 2's correlation = 0.5875982713509723

1's and 3's correlation = 0.2314451640192641

1's and 4's correlation = 0.7165090789800029

1's and 5's correlation = 0.440786523725046

1's and 6's correlation = 0.20251453380542278

1's and 7's correlation = 0.7160514550470518

1's and 8's correlation = 0.09388425367737549

1's and 9's correlation =
0.7263128564920919

1's and 10's correlation =
0.8808589565811912

1's and 11's correlation =
0.88118971122092

1's and 12's correlation =
0.010006274035904553

1's and 13's correlation =
0.7165090789798144

2's length = 380000

2's and 0's correlation =
0.8931636946141123

2's and 1's correlation =
0.5875982713509723

2's and 2's correlation = 1.0

2's and 3's correlation =
0.47279682173858734

2's and 4's correlation =
0.7192673588199263

2's and 5's correlation =
0.4414958855795461

2's and 6's correlation =
0.36329858359282363

2's and 7's correlation =
0.720683696570341

2's and 8's correlation =
0.11813154463630121

2's and 9's correlation =
0.41577610922329084

2's and 10's correlation =
0.47567463888378864

2's and 11's correlation =
0.4758845689913277

2's and 12's correlation =
0.03284536196996103

2's and 13's correlation =
0.7192673588197513

3's length = 380000

3's and 0's correlation =
0.3965125637186587

3's and 1's correlation =
0.2314451640192641

3's and 2's correlation =
0.47279682173858734

3's and 3's correlation = 1.0

3's and 4's correlation =
0.1675979231796138

3's and 5's correlation =
0.15605008402057777

3's and 6's correlation =
0.04679362492898757

3's and 7's correlation =
0.16886043133660822

3's and 8's correlation =
0.008281066668199609

3's and 9's correlation =
0.100536129800121

3's and 10's correlation =
0.153970705617597

3's and 11's correlation =
0.15402325307280215

3's and 12's correlation =
0.0011830145610544924

3's and 13's correlation =
0.16759792317960143

4's length = 380000

4's and 0's correlation =
0.8057574470407728

4's and 1's correlation =
0.7165090789800029

4's and 2's correlation =
0.7192673588199263

4's and 3's correlation =
0.1675979231796138

4's and 4's correlation = 1.0

4's and 5's correlation =
0.6040470143552252

4's and 6's correlation =
0.31449065538000615

4's and 7's correlation =
0.9998781886550424

4's and 8's correlation =
0.10860006178979094

4's and 9's correlation =
0.6840622551815213

4's and 10's correlation =
0.7169881045722027

4's and 11's correlation =
0.7173220269541132

4's and 12's correlation =
0.017175198817519007

4's and 13's correlation =
1.0000000000000222

5's length = 380000

5's and 0's correlation =
0.4951314037374301

5's and 1's correlation =
0.440786523725046

5's and 2's correlation =
0.4414958855795461

5's and 3's correlation =
0.15605008402057777

5's and 4's correlation =
0.6040470143552252

5's and 5's correlation = 1.0

5's and 6's correlation =
0.3951638992472818

5's and 7's correlation =
0.6088241302754261

5's and 8's correlation =
0.11712379066509258

5's and 9's correlation =
0.4555934769760039

5's and 10's correlation =
0.5086825237839186

5's and 11's correlation =
0.5089112710515854

5's and 12's correlation =
0.041857245665102336

5's and 13's correlation =
0.6040470143552691

6's length = 380000

6's and 0's correlation =
0.31839398317050754

6's and 1's correlation =
0.20251453380542278

6's and 2's correlation =
0.36329858359282363

6's and 3's correlation =
0.04679362492898757

6's and 4's correlation =
0.31449065538000615

6's and 5's correlation =
0.3951638992472818

6's and 6's correlation = 1.0

6's and 7's correlation =
0.31671497621109584

6's and 8's correlation =
0.3262798227073564

6's and 9's correlation =
0.13203381049471039

6's and 10's correlation =
0.12158765897452571

6's and 11's correlation =
0.1216927157017075

6's and 12's correlation =
0.40554487094461483

6's and 13's correlation =
0.314490655380068

7's length = 380000

7's and 0's correlation =
0.8063055561474188

7's and 1's correlation =
0.7160514550470518

7's and 2's correlation =
0.720683696570341

7's and 3's correlation =
0.16886043133660822

7's and 4's correlation =
0.9998781886550424

7's and 5's correlation =
0.6088241302754261

7's and 6's correlation =
0.31671497621109584

7's and 7's correlation = 1.0

7's and 8's correlation =
0.10918306378180576

7's and 9's correlation =
0.6838219378152653

7's and 10's correlation =
0.7169750283535965

7's and 11's correlation =
0.7173088303023667

7's and 12's correlation =
0.017263367054966467

7's and 13's correlation =
0.9998781886550693

8's length = 380000

8's and 0's correlation =
0.11911157275940987

8's and 1's correlation =
0.09388425367737549

8's and 2's correlation =
0.11813154463630121

8's and 3's correlation =
0.008281066668199609

8's and 4's correlation =
0.10860006178979094

8's and 5's correlation =
0.11712379066509258

8's and 6's correlation =
0.3262798227073564

8's and 7's correlation =
0.10918306378180576

8's and 8's correlation = 1.0

8's and 9's correlation =
0.07538567616479841

8's and 10's correlation =
0.08118355948789341

8's and 11's correlation =
0.08122476045400827

8's and 12's correlation =
0.1480806057538148

8's and 13's correlation =
0.10860006178978103

9's length = 380000

9's and 0's correlation =
0.6392564190105747

9's and 1's correlation =
0.7263128564920919

9's and 2's correlation =
0.41577610922329084

9's and 3's correlation =
0.100536129800121

9's and 4's correlation =
0.6840622551815213

9's and 5's correlation =
0.4555934769760039

9's and 6's correlation =
0.13203381049471039

9's and 7's correlation =
0.6838219378152653

9's and 8's correlation =
0.07538567616479841

9's and 9's correlation = 1.0

9's and 10's correlation =
0.8101755834067096

9's and 11's correlation =
0.8104645858971409

9's and 12's correlation = -
0.019717958371279126

9's and 13's correlation =
0.6840622551814936

10's length = 380000

10's and 0's correlation =
0.7590909210474384

10's and 1's correlation =
0.8808589565811912

10's and 2's correlation =
0.47567463888378864

10's and 3's correlation =
0.153970705617597

10's and 4's correlation =
0.7169881045722027

10's and 5's correlation =
0.5086825237839186

10's and 6's correlation =
0.12158765897452571

10's and 7's correlation =
0.7169750283535965

10's and 8's correlation =
0.08118355948789341

10's and 9's correlation =
0.8101755834067096

10's and 10's correlation = 1.0

10's and 11's correlation =
0.9999909255515622

10's and 12's correlation = -0.017127221651596455

10's and 13's correlation = 0.7169881045721622

11's length = 380000

11's and 0's correlation = 0.7593936971324109

11's and 1's correlation = 0.88118971122092

11's and 2's correlation = 0.4758845689913277

11's and 3's correlation = 0.15402325307280215

11's and 4's correlation = 0.7173220269541132

11's and 5's correlation = 0.5089112710515854

11's and 6's correlation = 0.1216927157017075

11's and 7's correlation = 0.7173088303023667

11's and 8's correlation = 0.08122476045400827

11's and 9's correlation = 0.8104645858971409

11's and 10's correlation = 0.9999909255515622

11's and 11's correlation = 1.0

11's and 12's correlation = -0.017121926281351604

11's and 13's correlation = 0.7173220269540677

12's length = 380000

12's and 0's correlation = 0.02417084718709873

12's and 1's correlation = 0.010006274035904553

12's and 2's correlation = 0.03284536196996103

12's and 3's correlation = 0.0011830145610544924

12's and 4's correlation = 0.017175198817519007

12's and 5's correlation = 0.041857245665102336

12's and 6's correlation = 0.40554487094461483

12's and 7's correlation = 0.017263367054966467

12's and 8's correlation = 0.1480806057538148

12's and 9's correlation = -0.019717958371279126

12's and 10's correlation = -0.017127221651596455

12's and 11's correlation = -0.017121926281351604

12's and 12's correlation = 1.0

12's and 13's correlation = 0.017175198817513178

13's length = 380000

13's and 0's correlation = 0.8057574470406482

13's and 1's correlation = 0.7165090789798144

13's and 2's correlation = 0.7192673588197513

13's and 3's correlation = 0.16759792317960143

13's and 4's correlation = 1.0000000000000222

13's and 5's correlation = 0.6040470143552691

13's and 6's correlation = 0.314490655380068

13's and 7's correlation = 0.9998781886550693

13's and 8's correlation = 0.10860006178978103

13's and 9's correlation = 0.6840622551814936

13's and 10's correlation = 0.7169881045721622

13's and 11's correlation = 0.7173220269540677

13's and 12's correlation = 0.017175198817513178

13's and 13's correlation = 1.0

highly correlated=13

Correlation >= 0.80:

0's and 1's correlation = 0.8887231236028617

0 and 1

0's and 2's correlation = 0.8931636946141123

0 and 2

0's and 4's correlation = 0.8057574470407728

0 and 4

0's and 7's correlation = 0.8063055561474188

0 and 7

0's and 13's correlation = 0.8057574470406482

0 and 13

1's and 0's correlation = 0.8887231236028617

1 and 0

1's and 10's correlation = 0.8808589565811912

1 and 10

1's and 11's correlation = 0.88118971122092

1 and 11

2's and 0's correlation = 0.8931636946141123

2 and 0

4's and 0's correlation = 0.8057574470407728

4 and 0

4's and 7's correlation = 0.9998781886550424

4 and 7

4's and 13's correlation = 1.0000000000000222

4 and 13

7's and 0's correlation = 0.8063055561474188

7 and 0

7's and 4's correlation = 0.9998781886550424

7 and 4

7's and 13's correlation = 0.9998781886550693

7 and 13

9's and 10's correlation = 0.8101755834067096

9 and 10

9's and 11's correlation = 0.8104645858971409

9 and 11

10's and 1's correlation = 0.8808589565811912

10 and 1

10's and 9's correlation = 0.8101755834067096

10 and 9

10's and 11's correlation = 0.9999909255515622

10 and 11

11's and 1's correlation = 0.88118971122092

11 and 1

11's and 9's correlation = 0.8104645858971409

11 and 9

11's and 10's correlation = 0.9999909255515622

11 and 10

13's and 0's correlation = 0.8057574470406482

13 and 0

13's and 4's correlation = 1.0000000000000222

13 and 4

13's and 7's correlation = 0.9998781886550693

13 and 7

highly correlated=13

mean time of 0=0.0008907001269491096 seconds

mean time of 1=0.0004118376656582481 seconds

mean time of 2=0.0002467337407563862 seconds

mean time of 3=0.02341249334184747 seconds

mean time of 4=0.16958577350566262 seconds

mean time of 5=89.23741984179145 seconds

mean time of 6=0.03833054586460716 seconds

mean time of 7=0.12783290837940417 seconds

mean time of 8=0.018120057018179644 seconds

mean time of 9=0.00964772293442174 seconds

mean time of 10=0.10043163989719592 seconds

mean time of 11=0.008671586764486212 seconds

mean time of 12=0.004749920179969386 seconds

mean time of 13=0.192278285089292 seconds

time needed = 15593.376278162 seconds

152.0

experiment-1

>>>

Xin<Xout for experiment-2:

0's and 0's correlation = 1.0

0's and 1's correlation = 0.9437759039778075

0's and 2's correlation = 0.8279604984355668

0's and 3's correlation = 0.2118337024980152

0's and 4's correlation = 0.8524105040347872

0's and 5's correlation = 0.5177890669536599

0's and 6's correlation = 0.2408382051200407

0's and 7's correlation = 0.8539876245843326

0's and 8's correlation = 0.09410421106634331

0's and 9's correlation = 0.7894461354177151

0's and 10's correlation = 0.8894360664066023

0's and 11's correlation = 0.8895091096201658

0's and 12's correlation = -0.009553586286700227

0's and 13's correlation = 0.8524105040348476

1's length = 1035000

1's and 0's correlation = 0.9437759039778075

1's and 1's correlation = 1.0

1's and 2's correlation = 0.596021078368679

1's and 3's correlation = 0.11351933913061293

1's and 4's correlation = 0.7646797842341175

1's and 5's correlation = 0.46475338602548266

1's and 6's correlation = 0.14860258492503672

1's and 7's correlation = 0.7659174954011356

1's and 8's correlation = 0.0629127628777016

1's and 9's correlation = 0.8089556311518488

1's and 10's correlation = 0.953341288732317

1's and 11's correlation = 0.953412961069791

1's and 12's correlation = -0.014521781947378088

1's and 13's correlation = 0.7646797842342501

2's length = 1035000

2's and 0's correlation = 0.8279604984355668

2's and 1's correlation = 0.596021078368679

2's and 2's correlation = 1.0

2's and 3's correlation = 0.32196093139135135

2's and 4's correlation = 0.7732845860874715

2's and 5's correlation = 0.4692912372918501

2's and 6's correlation = 0.3328975813612463

2's and 7's correlation = 0.7750157153997832

2's and 8's correlation = 0.12185068968840289

2's and 9's correlation = 0.5452418456326481

2's and 10's correlation = 0.543182705011436

2's and 11's correlation = 0.5432385408655175

2's and 12's correlation = 0.0014289373866858675

2's and 13's correlation = 0.7732845860876353

3's length = 1035000

3's and 0's correlation = 0.2118337024980152

3's and 1's correlation = 0.11351933913061293

3's and 2's correlation = 0.32196093139135135

3's and 3's correlation = 1.0

3's and 4's correlation = 0.11116705032908844

3's and 5's correlation = 0.1543358593033014

3's and 6's correlation = 0.024793811039466592

3's and 7's correlation = 0.11215862175099267

3's and 8's correlation = 0.010455790840163992

3's and 9's correlation = 0.07663849995776585

3's and 10's correlation = 0.0962618768461631

3's and 11's correlation = 0.09628277952817613

3's and 12's correlation = -0.0005222688465710976

3's and 13's correlation = 0.11116705032910659

4's length = 1035000

4's and 0's correlation = 0.8524105040347872

4's and 1's correlation = 0.7646797842341175

4's and 2's correlation = 0.7732845860874715

4's and 3's correlation = 0.11116705032908844

4's and 4's correlation = 1.0

4's and 5's correlation = 0.547461799466335

4's and 6's correlation = 0.25968143821721706

4's and 7's correlation = 0.9998694059142775

4's and 8's correlation = 0.07500658411221055

4's and 9's correlation = 0.8126224344231807

4's and 10's correlation = 0.7509903488782271

4's and 11's correlation = 0.7510674837292934

4's and 12's correlation = -0.020510315785681757

4's and 13's correlation = 0.9999999999997532

5's length = 1035000

5's and 0's correlation = 0.5177890669536599

5's and 1's correlation = 0.46475338602548266

5's and 2's correlation = 0.4692912372918501

5's and 3's correlation = 0.1543358593033014

5's and 4's correlation = 0.547461799466335

5's and 5's correlation = 1.0

5's and 6's correlation = 0.3854150018562055

5's and 7's correlation = 0.5526509506337204

5's and 8's correlation = 0.10075298933209058

5's and 9's correlation = 0.47792415774506813

5's and 10's correlation = 0.4892085478848247

5's and 11's correlation = 0.48926268597767536

5's and 12's correlation =
0.0003865215096810687

5's and 13's correlation =
0.5474617994664088

6's length = 1035000

6's and 0's correlation =
0.2408382051200407

6's and 1's correlation =
0.14860258492503672

6's and 2's correlation =
0.3328975813612463

6's and 3's correlation =
0.024793811039466592

6's and 4's correlation =
0.25968143821721706

6's and 5's correlation =
0.3854150018562055

6's and 6's correlation = 1.0

6's and 7's correlation =
0.2617894493316883

6's and 8's correlation =
0.32503807689762393

6's and 9's correlation =
0.14495761101518218

6's and 10's correlation =
0.10835437319711703

6's and 11's correlation =
0.10839087914610931

6's and 12's correlation =
0.3704692703548918

6's and 13's correlation =
0.2596814382172972

7's length = 1035000

7's and 0's correlation =
0.8539876245843326

7's and 1's correlation =
0.7659174954011356

7's and 2's correlation =
0.7750157153997832

7's and 3's correlation =
0.11215862175099267

7's and 4's correlation =
0.9998694059142775

7's and 5's correlation =
0.5526509506337204

7's and 6's correlation =
0.2617894493316883

7's and 7's correlation = 1.0

7's and 8's correlation =
0.07552510667211305

7's and 9's correlation =
0.8124374510112955

7's and 10's correlation =
0.7522612978921449

7's and 11's correlation =
0.7523385252842203

7's and 12's correlation = -
0.020728599733612876

7's and 13's correlation =
0.9998694059139969

8's length = 1035000

8's and 0's correlation =
0.09410421106634331

8's and 1's correlation =
0.0629127628777016

8's and 2's correlation =
0.12185068968840289

8's and 3's correlation =
0.010455790840163992

8's and 4's correlation =
0.07500658411221055

8's and 5's correlation =
0.10075298933209058

8's and 6's correlation =
0.32503807689762393

8's and 7's correlation =
0.07552510667211305

8's and 8's correlation = 1.0

8's and 9's correlation =
0.058627430858678525

8's and 10's correlation =
0.05379093385046565

8's and 11's correlation =
0.05380287470073078

8's and 12's correlation =
0.13359900143097236

8's and 13's correlation =
0.07500658411223472

9's length = 1035000

9's and 0's correlation =
0.7894461354177151

9's and 1's correlation =
0.8089556311518488

9's and 2's correlation =
0.5452418456326481

9's and 3's correlation =
0.07663849995776585

9's and 4's correlation =
0.8126224344231807

9's and 5's correlation =
0.47792415774506813

9's and 6's correlation =
0.14495761101518218

9's and 7's correlation =
0.8124374510112955

9's and 8's correlation =
0.058627430858678525

9's and 9's correlation = 1.0

9's and 10's correlation =
0.8570118338910363

9's and 11's correlation =
0.8570792362030634

9's and 12's correlation = -
0.037753987481930235

9's and 13's correlation =
0.8126224344233043

10's length = 1035000

10's and 0's correlation =
0.8894360664066023

10's and 1's correlation =
0.953341288732317

10's and 2's correlation =
0.543182705011436

10's and 3's correlation =
0.0962618768461631

10's and 4's correlation =
0.7509903488782271

10's and 5's correlation =
0.4892085478848247

10's and 6's correlation = 0.10835437319711703

10's and 7's correlation = 0.7522612978921449

10's and 8's correlation = 0.05379093385046565

10's and 9's correlation = 0.8570118338910363

10's and 10's correlation = 1.0

10's and 11's correlation = 0.9999982238467005

10's and 12's correlation = -0.03014772875528258

10's and 13's correlation = 0.7509903488783392

11's length = 1035000

11's and 0's correlation = 0.8895091096201658

11's and 1's correlation = 0.953412961069791

11's and 2's correlation = 0.5432385408655175

11's and 3's correlation = 0.09628277952817613

11's and 4's correlation = 0.7510674837292934

11's and 5's correlation = 0.48926268597767536

11's and 6's correlation = 0.10839087914610931

11's and 7's correlation = 0.7523385252842203

11's and 8's correlation = 0.05380287470073078

11's and 9's correlation = 0.8570792362030634

11's and 10's correlation = 0.9999982238467005

11's and 11's correlation = 1.0

11's and 12's correlation = -0.03014238551970227

11's and 13's correlation = 0.7510674837294226

12's length = 1035000

12's and 0's correlation = -0.009553586286700227

12's and 1's correlation = -0.014521781947378088

12's and 2's correlation = 0.0014289373866858675

12's and 3's correlation = -0.0005222688465710976

12's and 4's correlation = -0.020510315785681757

12's and 5's correlation = 0.0003865215096810687

12's and 6's correlation = 0.3704692703548918

12's and 7's correlation = -0.020728599733612876

12's and 8's correlation = 0.13359900143097236

12's and 9's correlation = -0.037753987481930235

12's and 10's correlation = -0.03014772875528258

12's and 11's correlation = -0.03014238551970227

12's and 12's correlation = 1.0

12's and 13's correlation = -0.020510315785671918

13's length = 1035000

13's and 0's correlation = 0.8524105040348476

13's and 1's correlation = 0.7646797842342501

13's and 2's correlation = 0.7732845860876353

13's and 3's correlation = 0.11116705032910659

13's and 4's correlation = 0.9999999999997532

13's and 5's correlation = 0.5474617994664088

13's and 6's correlation = 0.2596814382172972

13's and 7's correlation = 0.9998694059139969

13's and 8's correlation = 0.07500658411223472

13's and 9's correlation = 0.8126224344233043

13's and 10's correlation = 0.7509903488783392

13's and 11's correlation = 0.7510674837294226

13's and 12's correlation = -0.020510315785671918

13's and 13's correlation = 1.0

highly correlated=19

Correlation >= 0.80:

0's and 1's correlation = 0.9437759039778075

0 and 1

0's and 2's correlation = 0.8279604984355668

0 and 2

0's and 4's correlation = 0.8524105040347872

0 and 4

0's and 7's correlation = 0.8539876245843326

0 and 7

0's and 10's correlation = 0.8894360664066023

0 and 10

0's and 11's correlation = 0.8895091096201658

0 and 11

0's and 13's correlation = 0.8524105040348476

0 and 13

1's and 0's correlation = 0.9437759039778075

1 and 0

**1's and 9's correlation =
0.8089556311518488**

1 and 9

**1's and 10's correlation =
0.953341288732317**

1 and 10

**1's and 11's correlation =
0.953412961069791**

1 and 11

**2's and 0's correlation =
0.8279604984355668**

2 and 0

**4's and 0's correlation =
0.8524105040347872**

4 and 0

**4's and 7's correlation =
0.9998694059142775**

4 and 7

**4's and 9's correlation =
0.8126224344231807**

4 and 9

**4's and 13's correlation =
0.9999999999997532**

4 and 13

**7's and 0's correlation =
0.8539876245843326**

7 and 0

**7's and 4's correlation =
0.9998694059142775**

7 and 4

**7's and 9's correlation =
0.8124374510112955**

7 and 9

**7's and 13's correlation =
0.9998694059139969**

7 and 13

**9's and 1's correlation =
0.8089556311518488**

9 and 1

**9's and 4's correlation =
0.8126224344231807**

9 and 4

**9's and 7's correlation =
0.8124374510112955**

9 and 7

**9's and 10's correlation =
0.8570118338910363**

9 and 10

**9's and 11's correlation =
0.8570792362030634**

9 and 11

**9's and 13's correlation =
0.8126224344233043**

9 and 13

**10's and 0's correlation =
0.8894360664066023**

10 and 0

**10's and 1's correlation =
0.953341288732317**

10 and 1

**10's and 9's correlation =
0.8570118338910363**

10 and 9

**10's and 11's correlation =
0.9999982238467005**

10 and 11

**11's and 0's correlation =
0.8895091096201658**

11 and 0

**11's and 1's correlation =
0.953412961069791**

11 and 1

**11's and 9's correlation =
0.8570792362030634**

11 and 9

**11's and 10's correlation =
0.9999982238467005**

11 and 10

**13's and 0's correlation =
0.8524105040348476**

13 and 0

**13's and 4's correlation =
0.9999999999997532**

13 and 4

**13's and 7's correlation =
0.9998694059139969**

13 and 7

**13's and 9's correlation =
0.8126224344233043**

13 and 9

highly correlated=19

**mean time of
0=0.0009815065181197752 seconds**

**mean time of
1=0.0004981457899158127 seconds**

**mean time of
2=0.00047569597400904854 seconds**

**mean time of
3=0.035231244736823486 seconds**

**mean time of 4=0.27483377214791116
seconds**

**mean time of 5=31.675362830576688
seconds**

**mean time of 6=0.0627306400289858
seconds**

**mean time of 7=0.21866843539159656
seconds**

**mean time of
8=0.043442908577297046 seconds**

**mean time of 9=0.0143768768955544
seconds**

**mean time of 10=0.1147608306672838
seconds**

**mean time of 11=0.0197733657947485
seconds**

**mean time of
12=0.007159719720554812 seconds**

**mean time of
13=0.30127199145330896 seconds**

time needed = 70690.4855120182 seconds

414.0

experiment-2

>>>

Xin<Xout for experiment-1:

0's length = 2620000

0's and 0's correlation = 1.0

0's and 1's correlation = 0.9291525960953735

0's and 2's correlation = 0.8195021282100511

0's and 3's correlation = 0.21376794533020044

0's and 4's correlation = 0.8426024691472132

0's and 5's correlation = 0.494181267262618

0's and 6's correlation = 0.2806505166259268

0's and 7's correlation = 0.8430318556304889

0's and 8's correlation = 0.11613666508648936

0's and 9's correlation = 0.7139012379659456

0's and 10's correlation = 0.8179856299403505

0's and 11's correlation = 0.8181743188921166

0's and 12's correlation = 0.02407841650608746

0's and 13's correlation = 0.8426024691471117

1's length = 2620000

1's and 0's correlation = 0.9291525960953735

1's and 1's correlation = 1.0

1's and 2's correlation = 0.5495783248238654

1's and 3's correlation = 0.10650337889938626

1's and 4's correlation = 0.7429817171959167

1's and 5's correlation = 0.43417029698568577

1's and 6's correlation = 0.1614055348164489

1's and 7's correlation = 0.7429517594655415

1's and 8's correlation = 0.0788200215185166

1's and 9's correlation = 0.7554475296334736

1's and 10's correlation = 0.8997796994240467

1's and 11's correlation = 0.8999720959975991

1's and 12's correlation = 0.005754342827918563

1's and 13's correlation = 0.7429817171962966

2's length = 2620000

2's and 0's correlation = 0.8195021282100511

2's and 1's correlation = 0.5495783248238654

2's and 2's correlation = 1.0

2's and 3's correlation = 0.31798039132843253

2's and 4's correlation = 0.7524026158814121

2's and 5's correlation = 0.4437349971612145

2's and 6's correlation = 0.38401675120053047

2's and 7's correlation = 0.7534193842707334

2's and 8's correlation = 0.14026534273572389

2's and 9's correlation = 0.4422392263116933

2's and 10's correlation = 0.4537166711861103

2's and 11's correlation = 0.4538448326257448

2's and 12's correlation = 0.0454925908866791

2's and 13's correlation = 0.7524026158821139

3's length = 2620000

3's and 0's correlation = 0.21376794533020044

3's and 1's correlation = 0.10650337889938626

3's and 2's correlation = 0.31798039132843253

3's and 3's correlation = 1.0

3's and 4's correlation = 0.1366037073953316

3's and 5's correlation = 0.1509788132098448

3's and 6's correlation = 0.03801666936035985

3's and 7's correlation = 0.13752748845989823

3's and 8's correlation = 0.020630939044439692

3's and 9's correlation = 0.09215953137807723

3's and 10's correlation = 0.10299315236229073

3's and 11's correlation = 0.10302198175914891

3's and 12's correlation = 0.001926711271766214

3's and 13's correlation = 0.13660370739542949

4's length = 2620000

4's and 0's correlation = 0.8426024691472132

4's and 1's correlation = 0.7429817171959167

4's and 2's correlation =
0.7524026158814121

4's and 3's correlation =
0.1366037073953316

4's and 4's correlation = 1.0

4's and 5's correlation =
0.5977368289100242

4's and 6's correlation =
0.27973609441828584

4's and 7's correlation =
0.9998835290785963

4's and 8's correlation =
0.0907142452274084

4's and 9's correlation =
0.7118848683371899

4's and 10's correlation =
0.6921212990736169

4's and 11's correlation =
0.6923078544526121

4's and 12's correlation =
0.01323820331965119

4's and 13's correlation =
0.9999999999989752

5's length = 2620000

5's and 0's correlation =
0.494181267262618

5's and 1's correlation =
0.43417029698568577

5's and 2's correlation =
0.4437349971612145

5's and 3's correlation =
0.1509788132098448

5's and 4's correlation =
0.5977368289100242

5's and 5's correlation = 1.0

5's and 6's correlation =
0.36860090160428555

5's and 7's correlation =
0.6021553067926577

5's and 8's correlation =
0.10677424088945807

5's and 9's correlation =
0.4843301106201373

5's and 10's correlation =
0.4837896893443758

5's and 11's correlation =
0.483919753634694

5's and 12's correlation =
0.05324436640159044

5's and 13's correlation =
0.5977368289105622

6's length = 2620000

6's and 0's correlation =
0.2806505166259268

6's and 1's correlation =
0.1614055348164489

6's and 2's correlation =
0.38401675120053047

6's and 3's correlation =
0.03801666936035985

6's and 4's correlation =
0.27973609441828584

6's and 5's correlation =
0.36860090160428555

6's and 6's correlation = 1.0

6's and 7's correlation =
0.2816548421117806

6's and 8's correlation =
0.31452622159041527

6's and 9's correlation =
0.11252533208435328

6's and 10's correlation =
0.0898493938265995

6's and 11's correlation =
0.08990241507249504

6's and 12's correlation =
0.4787539047395635

6's and 13's correlation =
0.27973609441806035

7's length = 2620000

7's and 0's correlation =
0.8430318556304889

7's and 1's correlation =
0.7429517594655415

7's and 2's correlation =
0.7534193842707334

7's and 3's correlation =
0.13752748845989823

7's and 4's correlation =
0.9998835290785963

7's and 5's correlation =
0.6021553067926577

7's and 6's correlation =
0.2816548421117806

7's and 7's correlation = 1.0

7's and 8's correlation =
0.09123478982675769

7's and 9's correlation =
0.7119102440258743

7's and 10's correlation =
0.6926145715796831

7's and 11's correlation =
0.6928013513045894

7's and 12's correlation =
0.01334924222967936

7's and 13's correlation =
0.999883529077576

8's length = 2620000

8's and 0's correlation =
0.11613666508648936

8's and 1's correlation =
0.0788200215185166

8's and 2's correlation =
0.14026534273572389

8's and 3's correlation =
0.020630939044439692

8's and 4's correlation =
0.0907142452274084

8's and 5's correlation =
0.10677424088945807

8's and 6's correlation =
0.31452622159041527

8's and 7's correlation =
0.09123478982675769

8's and 8's correlation = 1.0

8's and 9's correlation =
0.06411527676611764

8's and 10's correlation =
0.06588806022189292

8's and 11's correlation = 0.06591035339544075

8's and 12's correlation = 0.1789962549858248

8's and 13's correlation = 0.09071424522748643

9's length = 2620000

9's and 0's correlation = 0.7139012379659456

9's and 1's correlation = 0.7554475296334736

9's and 2's correlation = 0.4422392263116933

9's and 3's correlation = 0.09215953137807723

9's and 4's correlation = 0.7118848683371899

9's and 5's correlation = 0.4843301106201373

9's and 6's correlation = 0.11252533208435328

9's and 7's correlation = 0.7119102440258743

9's and 8's correlation = 0.06411527676611764

9's and 9's correlation = 1.0

9's and 10's correlation = 0.8255061592128443

9's and 11's correlation = 0.8256704657118819

9's and 12's correlation = -0.026423830665572984

9's and 13's correlation = 0.7118848683377074

10's length = 2620000

10's and 0's correlation = 0.8179856299403505

10's and 1's correlation = 0.8997796994240467

10's and 2's correlation = 0.4537166711861103

10's and 3's correlation = 0.10299315236229073

10's and 4's correlation = 0.6921212990736169

10's and 5's correlation = 0.4837896893443758

10's and 6's correlation = 0.0898493938265995

10's and 7's correlation = 0.6926145715796831

10's and 8's correlation = 0.06588806022189292

10's and 9's correlation = 0.8255061592128443

10's and 10's correlation = 1.0

10's and 11's correlation = 0.9999962695916724

10's and 12's correlation = -0.02291797471402503

10's and 13's correlation = 0.6921212990741148

11's length = 2620000

11's and 0's correlation = 0.8181743188921166

11's and 1's correlation = 0.8999720959975991

11's and 2's correlation = 0.4538448326257448

11's and 3's correlation = 0.10302198175914891

11's and 4's correlation = 0.6923078544526121

11's and 5's correlation = 0.483919753634694

11's and 6's correlation = 0.08990241507249504

11's and 7's correlation = 0.6928013513045894

11's and 8's correlation = 0.06591035339544075

11's and 9's correlation = 0.8256704657118819

11's and 10's correlation = 0.9999962695916724

11's and 11's correlation = 1.0

11's and 12's correlation = -0.022912040911271022

11's and 13's correlation = 0.6923078544531124

12's length = 2620000

12's and 0's correlation = 0.02407841650608746

12's and 1's correlation = 0.005754342827918563

12's and 2's correlation = 0.0454925908866791

12's and 3's correlation = 0.001926711271766214

12's and 4's correlation = 0.01323820331965119

12's and 5's correlation = 0.05324436640159044

12's and 6's correlation = 0.4787539047395635

12's and 7's correlation = 0.01334924222967936

12's and 8's correlation = 0.1789962549858248

12's and 9's correlation = -0.026423830665572984

12's and 10's correlation = -0.02291797471402503

12's and 11's correlation = -0.022912040911271022

12's and 12's correlation = 1.0

12's and 13's correlation = 0.0132382033196770094

13's length = 2620000

13's and 0's correlation = 0.8426024691471117

13's and 1's correlation = 0.7429817171962966

13's and 2's correlation = 0.7524026158821139

13's and 3's correlation = 0.13660370739542949

13's and 4's correlation = 0.9999999999989752

13's and 5's correlation = 0.5977368289105622

13's and 6's correlation = 0.27973609441806035

13's and 7's correlation = 0.999883529077576

13's and 8's correlation = 0.09071424522748643

13's and 9's correlation = 0.7118848683377074

13's and 10's correlation = 0.6921212990741148

13's and 11's correlation = 0.6923078544531124

13's and 12's correlation = 0.013238203319677094

13's and 13's correlation = 1.0

highly correlated=15

Correlation >= 0.80:

0's and 1's correlation = 0.9291525960953735

0 and 1

0's and 2's correlation = 0.8195021282100511

0 and 2

0's and 4's correlation = 0.8426024691472132

0 and 4

0's and 7's correlation = 0.8430318556304889

0 and 7

0's and 10's correlation = 0.8179856299403505

0 and 10

0's and 11's correlation = 0.8181743188921166

0 and 11

0's and 13's correlation = 0.8426024691471117

0 and 13

1's and 0's correlation = 0.9291525960953735

1 and 0

1's and 10's correlation = 0.8997796994240467

1 and 10

1's and 11's correlation = 0.8999720959975991

1 and 11

2's and 0's correlation = 0.8195021282100511

2 and 0

4's and 0's correlation = 0.8426024691472132

4 and 0

4's and 7's correlation = 0.9998835290785963

4 and 7

4's and 13's correlation = 0.9999999999989752

4 and 13

7's and 0's correlation = 0.8430318556304889

7 and 0

7's and 4's correlation = 0.9998835290785963

7 and 4

7's and 13's correlation = 0.999883529077576

7 and 13

9's and 10's correlation = 0.8255061592128443

9 and 10

9's and 11's correlation = 0.8256704657118819

9 and 11

10's and 0's correlation = 0.8179856299403505

10 and 0

10's and 1's correlation = 0.8997796994240467

10 and 1

10's and 9's correlation = 0.8255061592128443

10 and 9

10's and 11's correlation = 0.9999962695916724

10 and 11

11's and 0's correlation = 0.8181743188921166

11 and 0

11's and 1's correlation = 0.8999720959975991

11 and 1

11's and 9's correlation = 0.8256704657118819

11 and 9

11's and 10's correlation = 0.9999962695916724

11 and 10

13's and 0's correlation = 0.8426024691471117

13 and 0

13's and 4's correlation = 0.9999999999989752

13 and 4

13's and 7's correlation = 0.999883529077576

13 and 7

highly correlated=15

mean time of 0=0.0009718282987143248 seconds

mean time of 1=0.00043043576124060246 seconds

mean time of 2=0.0004308823410791295 seconds

mean time of 3=0.01891497632929387 seconds

mean time of 4=0.19811967547613246 seconds

mean time of 5=33.27579513824623 seconds

mean time of 6=0.03865469771487112 seconds

mean time of 7=0.13002397104074026 seconds

mean time of 8=0.05527692255173021 seconds

mean time of 9=0.03923277245223067 seconds

mean time of 10=0.1031958605496938 seconds

mean time of 11=0.03440031491163123 seconds

mean time of 12=0.0053422185755868 seconds

mean time of 13=0.22297984479947855 seconds

time needed = 111053.6341187954 seconds

1048.0

experiment-1

>>>

OUTPUT ANALYSIS:

In experiment-1,

5770 number of network (50 number of nodes per graph) for $X\_in > 〚X〛\_out$,

We created groups of correlated measures (correlation≥0.80):

Group1:

Degree centrality

Betweenness centrality

Load centrality

Betweenness centrality subset

Group2:

Degree centrality

In-degree centrality

Group 3:

Degree centrality

Out-degree centrality

Group 4:

Closeness vitality

Betweenness centrality

Load centrality

Betweenness centrality subset

Group 5:

Page rank scipy

Page rank numpy

In experiment-1,

5770 number of network (100 number of nodes per graph) for $X\_in> 〚X〛 \_out$,

We created groups of correlated measures (correlation≥0.80):

Group1:

Degree centrality

Betweenness centrality

Load centrality

Betweenness centrality subset

Group2:

    Degree centrality

    In-degree centrality

Group 3:

    Degree centrality

    Out-degree centrality

Group 4:

    Page rank scipy

    Page rank numpy

    In-degree centrality

In experiment-1,

5770 number of network (500 number of nodes per graph) for $X\_in > 〚X〛\_out$,

We created groups of correlated measures (correlation≥0.80):

Group1:

    Degree centrality

    Betweenness centrality

    Load centrality

    Betweenness centrality subset

Group2:

    Degree centrality

    In-degree centrality

Group 3:

    Degree centrality

    Out-degree centrality

Group 4:

    Page rank scipy

    Page rank numpy

    In-degree centrality

what we see from here , we get same result from 50,100 and 500 nodes except for 50 nodes betweeness centrality.

In experiment-1,

5240 number of network (50 number of nodes per graph) for $X\_in < 〖 X 〗\_out$,

We created groups of correlated measures (correlation≥0.80):

Group1:

    Degree centrality

    Betweenness centrality

    Load centrality

    Betweenness centrality subset

Group2:

    Degree centrality

    In-degree centrality

Group 3:

    Degree centrality

    Out-degree centrality

Group 4:

    Closeness vitality

    Betweenness centrality

Load centrality

Betweenness centrality subset

Group 5:

Page rank scipy

Page rank numpy

In-degree centrality

Group 6:

Eigenvector centrality

Page rank scipy

Page rank numpy

In experiment-1,

5240 number of network (100 number of nodes per graph) for $X\_in < 〚X〛\_out$,

We created groups of correlated measures (correlation≥0.80):

Group1:

Degree centrality

Betweenness centrality

Load centrality

Betweenness centrality subset

Group2:

Degree centrality

In-degree centrality

Group 3:

Degree centrality

Out-degree centrality

Group 4:

Page rank scipy

Page rank numpy

In-degree centrality

Group 5:

Eigenvector centrality

Page rank scipy

Page rank numpy

In experiment-1,

5240 number of network (500 number of nodes per graph) for $X\_in< 〖X〗\_out$,

We created groups of correlated measures (correlation≥0.80):

Group1:

Degree centrality

Betweenness centrality

Load centrality

Betweenness centrality subset

Group2:

Degree centrality

In-degree centrality

Page rank scipy

Page rank numpy

Group 3:

Degree centrality

Out-degree centrality

Group 4:

Eigenvector centrality

Page rank scipy

Page rank numpy

In experiment-1,

760 number of network (50 number of nodes per graph) for $X\_in = [\![X]\!]\_out$,

We created groups of correlated measures (correlation≥0.80):

Group1:

Degree centrality

Betweenness centrality

Load centrality

Betweenness centrality subset

Group2:

Degree centrality

In-degree centrality

Group 3:

Degree centrality

Out-degree centrality

Group 4:

Closeness vitality

Betweenness centrality

Load centrality

Betweenness centrality subset

Group 5:

Page rank scipy

Page rank numpy

In-degree centrality

Group 6:

    Eigenvector centrality

    Page rank scipy

    Page rank numpy

In experiment-1,

760 number of network (100 number of nodes per graph) for $X\_in= 〚 X 〛 \_out$,

We created groups of correlated measures (correlation≥0.80):

Group1:

    Degree centrality

    Betweenness centrality

    Load centrality

    Betweenness centrality subset

Group2:

    Degree centrality

    In-degree centrality

Group 3:

    Degree centrality

    Out-degree centrality

Group 4:

    Page rank scipy

    Page rank numpy

    In-degree centrality

Group 5:

    Eigenvector centrality

Page rank scipy

Page rank numpy

In experiment-1,

760 number of network (500 number of nodes per graph) for $X\_in= 〚 X 〛 \_out$,

We created groups of correlated measures (correlation≥0.80):

Group1:

Degree centrality

Betweenness centrality

Load centrality

Betweenness centrality subset

Group2:

Degree centrality

In-degree centrality

Group 3:

Degree centrality

Out-degree centrality

Group 4:

Page rank scipy

Page rank numpy

In-degree centrality

Group 5:

Eigenvector centrality

Page rank scipy

Page rank numpy

In experiment-2,we found out,

more correlated measures exists than experiment-1.

experiment-1 all results exists in experiment-2.

But experiment-2's $X\_in\ and\ X\_out$ are not welly distributed,

so, it is easily predictable that extra correlated measures of experiment-2

(which are not in experiment-1) are not true for all kind of directed scale free

network.

RESULT:

What we see, 50,100,500 nodes have common groups. So, these groups member are highly correlated for directed scale free graph.

We consider highly correlation is greater than or equal 0.8.

So, highly correlated group where members are highly correlated with each other

These highly correlated groups are:

Xin>Xout for experiment-1:

Highly correlated (correlation ≥ 0.80):

Group1:

Degree centrality

Betweenness centrality

Load centrality

Betweenness centrality subset

Group2:

Degree centrality

In-degree centrality

Group 3:

Degree centrality

Out-degree centrality

Group 4:

In-degree centrality

Page rank scipy

Page rank numpy

Xin<Xout for experiment-1:

Highly correlated (correlation ≥ 0.80):

Group1:

Degree centrality

Betweenness centrality

Load centrality

Betweenness centrality subset

Group2:

Degree centrality

In-degree centrality

Group 3:

Degree centrality

Out-degree centrality

Group 4:

In-degree centrality

Page rank scipy

Page rank numpy

Group 5:

Eigen-vector centrality

Page rank scipy

Page rank numpy

Xin=Xout for experiment-1:

Highly correlated (correlation ≥ 0.80):

Group1:

Degree centrality

Betweenness centrality

Load centrality

Betweenness centrality subset

Group2:

Degree centrality

In-degree centrality

Group 3:

Degree centrality

Out-degree centrality

Group 4:

In-degree centrality

Page rank scipy

Page rank numpy

Group 5:

Eigen-vector centrality

Page rank scipy

Page rank numpy

GRAPH TYPES:

Now, we are giving the graph's type bellow which were generated by "B. Bollobás, C. Borgs, J. Chayes, and O. Riordan, Directed scale-free graphs"[1] algorithm and used to find the correlation among 12 measures.

Experiment-1's graph types for Xin >Xout:

In experiment-1, each 5 graph's types are same but graphs are different from each other; because they are random graphs.

 But for showing graphs types,

we are going to show one graph type from each similar 5 graph's types.

For example, Here, we skip showing 1 no.,2 no.,3 no.,4 no. graph's type because they are similar to 5 no. graph's type. We represent 5 no graph's type behalf of 1 no.,2 no.,3 no.,4 no. graph's type.

5 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.040000000000000036,delta_out=0.07000000000000028,xin=2.7,xout=2.15

10 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.040000000000000036,delta_out=0.16000000000000014,xin=2.7,xout=2.2

15 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.040000000000000036,delta_out=0.25,xin=2.7,xout=2.25

20 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.040000000000000036,delta_out=0.33999999999999986,xin=2.7,xout=2.3

25 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.040000000000000036,delta_out=0.4300000000000006,xin=2.7,xout=2.35

30 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.040000000000000036,delta_out=0.5200000000000005,xin=2.7,xout=2.4

35 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.040000000000000036,delta_out=0.6100000000000003,xin=2.7,xout=2.45

40 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.040000000000000036,delta_out=0.7000000000000002,xin=2.7,xout=2.5

45 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.040000000000000036,delta_out=0.79,xin=2.7,xout=2.55

50 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.040000000000000036,delta_out=0.8800000000000008,xin=2.7,xout=2.6

55 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.040000000000000036,delta_out=0.9699999999999998,xin=2.7,xout=2.65

60 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.09999999999999964,delta_out=0.07000000000000028,xin=2.75,xout=2.15

65 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.09999999999999964,delta_out=0.16000000000000014,xin=2.75,xout=2.2

70 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.09999999999999964,delta_out=0.25,xin=2.75,xout=2.25

75 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.09999999999999964,delta_out=0.33999999999999986,xin=2.75,xout=2.3

80 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.09999999999999964,delta_out=0.4300000000000006,xin=2.75,xout=2.35

85 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.09999999999999964,delta_out=0.5200000000000005,xin=2.75,xout=2.4

90 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.09999999999999964,delta_out=0.6100000000000003,xin=2.75,xout=2.45

95 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.09999999999999964,delta_out=0.7000000000000002,xin=2.75,xout=2.5

100 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.09999999999999964,delta_out=0.79,xin=2.75,xout=2.55

105 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.09999999999999964,delta_out=0.8800000000000008,xin=2.75,xout=2.6

110 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.09999999999999964,delta_out=0.9699999999999998,xin=2.75,xout=2.65

115 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.09999999999999964,delta_out=1.0600000000000005,xin=2.75,xout=2.7

120 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.1599999999999997,delta_out=0.07000000000000028,xin=2.8,xout=2.15

125 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.1599999999999997,delta_out=0.16000000000000014,xin=2.8,xout=2.2

130 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.1599999999999997,delta_out=0.25,xin=2.8,xout=2.25

135 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.1599999999999997,delta_out=0.33999999999999986,xin=2.8,xout=2.3

140 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.1599999999999997,delta_out=0.4300000000000006,xin=2.8,xout=2.35

145 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.1599999999999997,delta_out=0.5200000000000005,xin=2.8,xout=2.4

150 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.1599999999999997,delta_out=0.6100000000000003,xin=2.8,xout=2.45

155 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.1599999999999997,delta_out=0.7000000000000002,xin=2.8,xout=2.5

160 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.1599999999999997,delta_out=0.79,xin=2.8,xout=2.55

165 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.1599999999999997,delta_out=0.8800000000000008,xin=2.8,xout=2.6

170 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.1599999999999997,delta_out=0.9699999999999998,xin=2.8,xout=2.65

175 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.1599999999999997,delta_out=1.0600000000000005,xin=2.8,xout=2.7

180 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.1599999999999997,delta_out=1.1500000000000004,xin=2.8,xout=2.75

185 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.21999999999999975,delta_out=0.07000000000000028,xin=2.85,xout=2.15

190 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.21999999999999975,delta_out=0.16000000000000014,xin=2.85,xout=2.2

195 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.21999999999999975,delta_out=0.25,xin=2.85,xout=2.25

200 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.21999999999999975,delta_out=0.33999999999999986,xin=2.85,xout=2.3

205 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.21999999999999975,delta_out=0.4300000000000006,xin=2.85,xout=2.35

210 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.21999999999999975,delta_out=0.5200000000000005,xin=2.85,xout=2.4

215 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.21999999999999975,delta_out=0.6100000000000003,xin=2.85,xout=2.45

220 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.21999999999999975,delta_out=0.7000000000000002,xin=2.85,xout=2.5

225 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.21999999999999975,delta_out=0.79,xin=2.85,xout=2.55

230 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.21999999999999975,delta_out=0.8800000000000008,xin=2.85,xout=2.6

235 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.21999999999999975,delta_out=0.9699999999999998,xin=2.85,xout=2.65

240 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.21999999999999975,delta_out=1.0600000000000005,xin=2.85,xout=2.7

245 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.21999999999999975,delta_out=1.1500000000000004,xin=2.85,xout=2.75

250 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.21999999999999975,delta_out=1.2400000000000002,xin=2.85,xout=2.8

255 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.2799999999999998,delta_out=0.07000000000000028,xin=2.9,xout=2.15

260 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.2799999999999998,delta_out=0.16000000000000014,xin=2.9,xout=2.2

265 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.2799999999999998,delta_out=0.25,xin=2.9,xout=2.25

270 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.2799999999999998,delta_out=0.33999999999999986,xin=2.9,xout=2.3

275 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.2799999999999998,delta_out=0.4300000000000006,xin=2.9,xout=2.35

280 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.2799999999999998,delta_out=0.5200000000000005,xin=2.9,xout=2.4

285 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.2799999999999998,delta_out=0.6100000000000003,xin=2.9,xout=2.45

290 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.2799999999999998,delta_out=0.7000000000000002,xin=2.9,xout=2.5

295 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.2799999999999998,delta_out=0.79,xin=2.9,xout=2.55

300 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.2799999999999998,delta_out=0.8800000000000008,xin=2.9,xout=2.6

305 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.2799999999999998,delta_out=0.9699999999999998,xin=2.9,xout=2.65

310 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.2799999999999998,delta_out=1.0600000000000005,xin=2.9,xout=2.7

315 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.2799999999999998,delta_out=1.1500000000000004,xin=2.9,xout=2.75

320 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.2799999999999998,delta_out=1.2400000000000002,xin=2.9,xout=2.8

325 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.2799999999999998,delta_out=1.33,xin=2.9,xout=2.85

330 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.33999999999999986,delta_out=0.07000000000000028,xin=2.95,xout=2.15

335 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.33999999999999986,delta_out=0.16000000000000014,xin=2.95,xout=2.2

340 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.33999999999999986,delta_out=0.25,xin=2.95,xout=2.25

345 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.33999999999999986,delta_out=0.33999999999999986,xin=2.95,xout=2.3

350 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.33999999999999986,delta_out=0.4300000000000006,xin=2.95,xout=2.35

355 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.33999999999999986,delta_out=0.5200000000000005,xin=2.95,xout=2.4

360 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.33999999999999986,delta_out=0.6100000000000003,xin=2.95,xout=2.45

365 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.33999999999999986,delta_out=0.7000000000000002,xin=2.95,xout=2.5

370 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.33999999999999986,delta_out=0.79,xin=2.95,xout=2.55

375 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.33999999999999986,delta_out=0.8800000000000008,xin=2.95,xout=2.6

380 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.33999999999999986,delta_out=0.9699999999999998,xin=2.95,xout=2.65

385 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.33999999999999986,delta_out=1.0600000000000005,xin=2.95,xout=2.7

390 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.33999999999999986,delta_out=1.1500000000000004,xin=2.95,xout=2.75

395 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.33999999999999986,delta_out=1.2400000000000002,xin=2.95,xout=2.8

400 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.33999999999999986,delta_out=1.33,xin=2.95,xout=2.85

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410 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.39999999999999947,delta_out=0.07000000000000028,xin=3.0,xout=2.15

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420 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.39999999999999947,delta_out=0.25,xin=3.0,xout=2.25

425 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.39999999999999947,delta_out=0.33999999999999986,xin=3.0,xout=2.3

430 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.39999999999999947,delta_out=0.4300000000000006,xin=3.0,xout=2.35

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440 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.39999999999999947,delta_out=0.6100000000000003,xin=3.0,xout=2.45

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450 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.39999999999999947,delta_out=0.79,xin=3.0,xout=2.55

455 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.39999999999999947,delta_out=0.8800000000000008,xin=3.0,xout=2.6

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465 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.39999999999999947,delta_out=1.0600000000000005,xin=3.0,xout=2.7

470 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.39999999999999947,delta_out=1.1500000000000004,xin=3.0,xout=2.75

475 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.39999999999999947,delta_out=1.2400000000000002,xin=3.0,xout=2.8

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495 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.03750000000000031,delta_out=0.0874999999999998,xin=2.45,xout=2.15

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640 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.29999999999999916,delta_out=0.9874999999999984,xin=2.6,xout=2.55

645 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.3874999999999995,delta_out=0.0874999999999998,xin=2.65,xout=2.15

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680 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.3874999999999995,delta_out=0.8749999999999997,xin=2.65,xout=2.5

685 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.3874999999999995,delta_out=0.9874999999999984,xin=2.65,xout=2.55

690 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.3874999999999995,delta_out=1.0999999999999992,xin=2.65,xout=2.6

695 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.47499999999999987,delta_out=0.0874999999999998,xin=2.7,xout=2.15

700 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.47499999999999987,delta_out=0.19999999999999962,xin=2.7,xout=2.2

705 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.47499999999999987,delta_out=0.31249999999999944,xin=2.7,xout=2.25

710 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.47499999999999987,delta_out=0.42499999999999927,xin=2.7,xout=2.3

715 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.47499999999999987,delta_out=0.5374999999999991,xin=2.7,xout=2.35

720 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.47499999999999987,delta_out=0.6499999999999989,xin=2.7,xout=2.4

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750 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.5624999999999991,delta_out=0.0874999999999998,xin=2.75,xout=2.15

755 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.5624999999999991,delta_out=0.19999999999999962,xin=2.75,xout=2.2

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770 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.5624999999999991,delta_out=0.5374999999999991,xin=2.75,xout=2.35

775 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.5624999999999991,delta_out=0.6499999999999989,xin=2.75,xout=2.4

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805 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.5624999999999991,delta_out=1.3249999999999988,xin=2.75,xout=2.7

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815 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.6499999999999995,delta_out=0.19999999999999962,xin=2.8,xout=2.2

820 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.6499999999999995,delta_out=0.31249999999999944,xin=2.8,xout=2.25

825 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.6499999999999995,delta_out=0.42499999999999927,xin=2.8,xout=2.3

830 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.6499999999999995,delta_out=0.5374999999999991,xin=2.8,xout=2.35

835 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.6499999999999995,delta_out=0.6499999999999989,xin=2.8,xout=2.4

840 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.6499999999999995,delta_out=0.7624999999999998,xin=2.8,xout=2.45

845 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.6499999999999995,delta_out=0.8749999999999997,xin=2.8,xout=2.5

850 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.6499999999999995,delta_out=0.9874999999999984,xin=2.8,xout=2.55

855 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.6499999999999995,delta_out=1.0999999999999992,xin=2.8,xout=2.6

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865 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.6499999999999995,delta_out=1.3249999999999988,xin=2.8,xout=2.7

870 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.6499999999999995,delta_out=1.4374999999999987,xin=2.8,xout=2.75

875 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.7374999999999998,delta_out=0.0874999999999998,xin=2.85,xout=2.15

880 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.7374999999999998,delta_out=0.19999999999999962,xin=2.85,xout=2.2

885 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.7374999999999998,delta_out=0.31249999999999944,xin=2.85,xout=2.25

890 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.7374999999999998,delta_out=0.42499999999999927,xin=2.85,xout=2.3

895 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.7374999999999998,delta_out=0.5374999999999991,xin=2.85,xout=2.35

900 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.7374999999999998,delta_out=0.6499999999999989,xin=2.85,xout=2.4

905 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.7374999999999998,delta_out=0.7624999999999998,xin=2.85,xout=2.45

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915 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.7374999999999998,delta_out=0.9874999999999984,xin=2.85,xout=2.55

920 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.7374999999999998,delta_out=1.0999999999999992,xin=2.85,xout=2.6

925 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.7374999999999998,delta_out=1.212499999999999,xin=2.85,xout=2.65

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935 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.7374999999999998,delta_out=1.4374999999999987,xin=2.85,xout=2.75

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945 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.8249999999999991,delta_out=0.0874999999999998,xin=2.9,xout=2.15

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960 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.8249999999999991,delta_out=0.42499999999999927,xin=2.9,xout=2.3

965 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.8249999999999991,delta_out=0.5374999999999991,xin=2.9,xout=2.35

970 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.8249999999999991,delta_out=0.6499999999999989,xin=2.9,xout=2.4

975 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.8249999999999991,delta_out=0.7624999999999998,xin=2.9,xout=2.45

980 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.8249999999999991,delta_out=0.8749999999999997,xin=2.9,xout=2.5

985 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.8249999999999991,delta_out=0.9874999999999984,xin=2.9,xout=2.55

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1020 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.9124999999999994,delta_out=0.0874999999999998,xin=2.95,xout=2.15

1025 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.9124999999999994,delta_out=0.19999999999999962,xin=2.95,xout=2.2

1030 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.9124999999999994,delta_out=0.31249999999999944,xin=2.95,xout=2.25

1035 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.9124999999999994,delta_out=0.42499999999999927,xin=2.95,xout=2.3

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1045 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.9124999999999994,delta_out=0.6499999999999989,xin=2.95,xout=2.4

1050 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.9124999999999994,delta_out=0.7624999999999998,xin=2.95,xout=2.45

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1075 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.9124999999999994,delta_out=1.3249999999999988,xin=2.95,xout=2.7

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1095 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.9124999999999994,delta_out=1.7749999999999992,xin=2.95,xout=2.9

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1110 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.9999999999999987,delta_out=0.31249999999999944,xin=3.0,xout=2.25

1115 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.9999999999999987,delta_out=0.42499999999999927,xin=3.0,xout=2.3

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1150 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.9999999999999987,delta_out=1.212499999999999,xin=3.0,xout=2.65

1155 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.9999999999999987,delta_out=1.3249999999999988,xin=3.0,xout=2.7

1160 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.9999999999999987,delta_out=1.4374999999999987,xin=3.0,xout=2.75

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1175 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.9999999999999987,delta_out=1.7749999999999992,xin=3.0,xout=2.9

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1195 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.13333333333333194,delta_out=0.41666666666666663,xin=2.3,xout=2.25

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1215 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.2666666666666661,delta_out=0.5666666666666663,xin=2.35,xout=2.3

1220 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.3999999999999988,delta_out=0.11666666666666638,xin=2.4,xout=2.15

1225 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.3999999999999988,delta_out=0.2666666666666669,xin=2.4,xout=2.2

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1240 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.3999999999999988,delta_out=0.7166666666666661,xin=2.4,xout=2.35

1245 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.533333333333333,delta_out=0.11666666666666638,xin=2.45,xout=2.15

1250 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.533333333333333,delta_out=0.2666666666666669,xin=2.45,xout=2.2

1255 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.533333333333333,delta_out=0.41666666666666663,xin=2.45,xout=2.25

1260 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.533333333333333,delta_out=0.5666666666666663,xin=2.45,xout=2.3

1265 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.533333333333333,delta_out=0.7166666666666661,xin=2.45,xout=2.35

1270 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.533333333333333,delta_out=0.8666666666666658,xin=2.45,xout=2.4

1275 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.6666666666666656,delta_out=0.11666666666666638,xin=2.5,xout=2.15

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1305 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.6666666666666656,delta_out=1.016666666666667,xin=2.5,xout=2.45

1310 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.7999999999999984,delta_out=0.11666666666666638,xin=2.55,xout=2.15

1315 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.7999999999999984,delta_out=0.2666666666666669,xin=2.55,xout=2.2

1320 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.7999999999999984,delta_out=0.41666666666666663,xin=2.55,xout=2.25

1325 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.7999999999999984,delta_out=0.5666666666666663,xin=2.55,xout=2.3

1330 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.7999999999999984,delta_out=0.7166666666666661,xin=2.55,xout=2.35

1335 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.7999999999999984,delta_out=0.8666666666666658,xin=2.55,xout=2.4

1340 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.7999999999999984,delta_out=1.016666666666667,xin=2.55,xout=2.45

1345 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.7999999999999984,delta_out=1.1666666666666667,xin=2.55,xout=2.5

1350 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.9333333333333332,delta_out=0.11666666666666638,xin=2.6,xout=2.15

1355 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.9333333333333332,delta_out=0.2666666666666669,xin=2.6,xout=2.2

1360 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.9333333333333332,delta_out=0.41666666666666663,xin=2.6,xout=2.25

1365 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.9333333333333332,delta_out=0.5666666666666663,xin=2.6,xout=2.3

1370 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.9333333333333332,delta_out=0.7166666666666661,xin=2.6,xout=2.35

1375 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.9333333333333332,delta_out=0.8666666666666658,xin=2.6,xout=2.4

1380 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.9333333333333332,delta_out=1.016666666666667,xin=2.6,xout=2.45

1385 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.9333333333333332,delta_out=1.1666666666666667,xin=2.6,xout=2.5

1390 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.9333333333333332,delta_out=1.316666666666665,xin=2.6,xout=2.55

1395 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.0666666666666653,delta_out=0.11666666666666638,xin=2.65,xout=2.15

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1405 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.0666666666666653,delta_out=0.41666666666666663,xin=2.65,xout=2.25

1410 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.0666666666666653,delta_out=0.5666666666666663,xin=2.65,xout=2.3

1415 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.0666666666666653,delta_out=0.7166666666666661,xin=2.65,xout=2.35

1420 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.0666666666666653,delta_out=0.8666666666666658,xin=2.65,xout=2.4

1425 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.0666666666666653,delta_out=1.016666666666667,xin=2.65,xout=2.45

1430 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.0666666666666653,delta_out=1.1666666666666667,xin=2.65,xout=2.5

1435 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.0666666666666653,delta_out=1.316666666666665,xin=2.65,xout=2.55

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1445 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.2000000000000002,delta_out=0.11666666666666638,xin=2.7,xout=2.15

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1455 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.2000000000000002,delta_out=0.41666666666666663,xin=2.7,xout=2.25

1460 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.2000000000000002,delta_out=0.5666666666666663,xin=2.7,xout=2.3

1465 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.2000000000000002,delta_out=0.7166666666666661,xin=2.7,xout=2.35

1470 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.2000000000000002,delta_out=0.8666666666666658,xin=2.7,xout=2.4

1475 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.2000000000000002,delta_out=1.016666666666667,xin=2.7,xout=2.45

1480 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.2000000000000002,delta_out=1.1666666666666667,xin=2.7,xout=2.5

1485 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.2000000000000002,delta_out=1.316666666666665,xin=2.7,xout=2.55

1490 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.2000000000000002,delta_out=1.4666666666666663,xin=2.7,xout=2.6

1495 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.2000000000000002,delta_out=1.616666666666666,xin=2.7,xout=2.65

1500 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.3333333333333321,delta_out=0.11666666666666638,xin=2.75,xout=2.15

1505 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.3333333333333321,delta_out=0.2666666666666669,xin=2.75,xout=2.2

1510 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.3333333333333321,delta_out=0.41666666666666663,xin=2.75,xout=2.25

1515 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.3333333333333321,delta_out=0.5666666666666663,xin=2.75,xout=2.3

1520 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.3333333333333321,delta_out=0.7166666666666661,xin=2.75,xout=2.35

1525 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.3333333333333321,delta_out=0.8666666666666658,xin=2.75,xout=2.4

1530 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.3333333333333321,delta_out=1.016666666666667,xin=2.75,xout=2.45

1535 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.3333333333333321,delta_out=1.1666666666666667,xin=2.75,xout=2.5

1540 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.3333333333333321,delta_out=1.316666666666665,xin=2.75,xout=2.55

1545 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.3333333333333321,delta_out=1.4666666666666663,xin=2.75,xout=2.6

1550 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.3333333333333321,delta_out=1.616666666666666,xin=2.75,xout=2.65

1555 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.3333333333333321,delta_out=1.7666666666666657,xin=2.75,xout=2.7

1560 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.4666666666666655,delta_out=0.11666666666666638,xin=2.8,xout=2.15

1565 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.4666666666666655,delta_out=0.2666666666666669,xin=2.8,xout=2.2

1570 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.4666666666666655,delta_out=0.41666666666666663,xin=2.8,xout=2.25

1575 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.4666666666666655,delta_out=0.5666666666666663,xin=2.8,xout=2.3

1580 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.4666666666666655,delta_out=0.7166666666666661,xin=2.8,xout=2.35

1585 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.4666666666666655,delta_out=0.8666666666666658,xin=2.8,xout=2.4

1590 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.4666666666666655,delta_out=1.016666666666667,xin=2.8,xout=2.45

1595 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.4666666666666655,delta_out=1.1666666666666667,xin=2.8,xout=2.5

1600 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.4666666666666655,delta_out=1.316666666666665,xin=2.8,xout=2.55

1605 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.4666666666666655,delta_out=1.4666666666666663,xin=2.8,xout=2.6

1610 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.4666666666666655,delta_out=1.616666666666666,xin=2.8,xout=2.65

1615 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.4666666666666655,delta_out=1.7666666666666657,xin=2.8,xout=2.7

1620 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.4666666666666655,delta_out=1.9166666666666654,xin=2.8,xout=2.75

1625 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.599999999999999,delta_out=0.11666666666666638,xin=2.85,xout=2.15

1630 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.599999999999999,delta_out=0.2666666666666669,xin=2.85,xout=2.2

1635 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.599999999999999,delta_out=0.41666666666666663,xin=2.85,xout=2.25

1640 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.599999999999999,delta_out=0.5666666666666663,xin=2.85,xout=2.3

1645 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.599999999999999,delta_out=0.7166666666666661,xin=2.85,xout=2.35

1650 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.599999999999999,delta_out=0.8666666666666658,xin=2.85,xout=2.4

1655 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.599999999999999,delta_out=1.016666666666667,xin=2.85,xout=2.45

1660 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.599999999999999,delta_out=1.1666666666666667,xin=2.85,xout=2.5

1665 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.599999999999999,delta_out=1.316666666666665,xin=2.85,xout=2.55

1670 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.599999999999999,delta_out=1.4666666666666663,xin=2.85,xout=2.6

1675 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.599999999999999,delta_out=1.616666666666666,xin=2.85,xout=2.65

1680 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.599999999999999,delta_out=1.7666666666666657,xin=2.85,xout=2.7

1685 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.599999999999999,delta_out=1.9166666666666654,xin=2.85,xout=2.75

1690 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.599999999999999,delta_out=2.066666666666665,xin=2.85,xout=2.8

1695 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.7333333333333325,delta_out=0.11666666666666638,xin=2.9,xout=2.15

1700 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.7333333333333325,delta_out=0.2666666666666669,xin=2.9,xout=2.2

1705 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.7333333333333325,delta_out=0.41666666666666663,xin=2.9,xout=2.25

1710 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.7333333333333325,delta_out=0.5666666666666663,xin=2.9,xout=2.3

1715 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.7333333333333325,delta_out=0.7166666666666661,xin=2.9,xout=2.35

1720 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.7333333333333325,delta_out=0.8666666666666658,xin=2.9,xout=2.4

1725 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.7333333333333325,delta_out=1.016666666666667,xin=2.9,xout=2.45

1730 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.7333333333333325,delta_out=1.1666666666666667,xin=2.9,xout=2.5

1735 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.7333333333333325,delta_out=1.316666666666665,xin=2.9,xout=2.55

1740 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.7333333333333325,delta_out=1.4666666666666663,xin=2.9,xout=2.6

1745 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.7333333333333325,delta_out=1.616666666666666,xin=2.9,xout=2.65

1750 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.7333333333333325,delta_out=1.7666666666666657,xin=2.9,xout=2.7

1755 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.7333333333333325,delta_out=1.9166666666666654,xin=2.9,xout=2.75

1760 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.7333333333333325,delta_out=2.066666666666665,xin=2.9,xout=2.8

1765 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.7333333333333325,delta_out=2.2166666666666663,xin=2.9,xout=2.85

1770 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.8666666666666658,delta_out=0.11666666666666638,xin=2.95,xout=2.15

1775 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.8666666666666658,delta_out=0.2666666666666669,xin=2.95,xout=2.2

1780 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.8666666666666658,delta_out=0.41666666666666663,xin=2.95,xout=2.25

1785 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.8666666666666658,delta_out=0.5666666666666663,xin=2.95,xout=2.3

1790 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.8666666666666658,delta_out=0.7166666666666661,xin=2.95,xout=2.35

1795 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.8666666666666658,delta_out=0.8666666666666658,xin=2.95,xout=2.4

1800 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.8666666666666658,delta_out=1.016666666666667,xin=2.95,xout=2.45

1805 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.8666666666666658,delta_out=1.1666666666666667,xin=2.95,xout=2.5

1810 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.8666666666666658,delta_out=1.316666666666665,xin=2.95,xout=2.55

1815 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.8666666666666658,delta_out=1.4666666666666663,xin=2.95,xout=2.6

1820 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.8666666666666658,delta_out=1.616666666666666,xin=2.95,xout=2.65

1825 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.8666666666666658,delta_out=1.7666666666666657,xin=2.95,xout=2.7

1830 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.8666666666666658,delta_out=1.9166666666666654,xin=2.95,xout=2.75

1835 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.8666666666666658,delta_out=2.066666666666665,xin=2.95,xout=2.8

1840 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.8666666666666658,delta_out=2.2166666666666663,xin=2.95,xout=2.85

1845 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.8666666666666658,delta_out=2.3666666666666663,xin=2.95,xout=2.9

1850 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.9999999999999993,delta_out=0.11666666666666638,xin=3.0,xout=2.15

1855 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.9999999999999993,delta_out=0.2666666666666669,xin=3.0,xout=2.2

1860 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.9999999999999993,delta_out=0.41666666666666663,xin=3.0,xout=2.25

1865 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.9999999999999993,delta_out=0.5666666666666663,xin=3.0,xout=2.3

1870 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.9999999999999993,delta_out=0.7166666666666661,xin=3.0,xout=2.35

1875 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.9999999999999993,delta_out=0.8666666666666658,xin=3.0,xout=2.4

1880 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.9999999999999993,delta_out=1.016666666666667,xin=3.0,xout=2.45

1885 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.9999999999999993,delta_out=1.1666666666666667,xin=3.0,xout=2.5

1890 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.9999999999999993,delta_out=1.316666666666665,xin=3.0,xout=2.55

1895 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.9999999999999993,delta_out=1.4666666666666663,xin=3.0,xout=2.6

1900 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.9999999999999993,delta_out=1.616666666666666,xin=3.0,xout=2.65

1905 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.9999999999999993,delta_out=1.7666666666666657,xin=3.0,xout=2.7

1910 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.9999999999999993,delta_out=1.9166666666666654,xin=3.0,xout=2.75

1915 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.9999999999999993,delta_out=2.066666666666665,xin=3.0,xout=2.8

1920 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.9999999999999993,delta_out=2.2166666666666663,xin=3.0,xout=2.85

1925 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.9999999999999993,delta_out=2.3666666666666663,xin=3.0,xout=2.9

1930 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.9999999999999993,delta_out=2.5166666666666657,xin=3.0,xout=2.95

1935 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.40000000000000036,delta_out=0.1749999999999996,xin=2.2,xout=2.15

1940 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.6249999999999989,delta_out=0.1749999999999996,xin=2.25,xout=2.15

1945 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.6249999999999989,delta_out=0.40000000000000036,xin=2.25,xout=2.2

1950 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.8499999999999985,delta_out=0.1749999999999996,xin=2.3,xout=2.15

1955 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.8499999999999985,delta_out=0.40000000000000036,xin=2.3,xout=2.2

1960 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.8499999999999985,delta_out=0.6249999999999989,xin=2.3,xout=2.25

1965 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.0750000000000004,delta_out=0.1749999999999996,xin=2.35,xout=2.15

1970 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.0750000000000004,delta_out=0.40000000000000036,xin=2.35,xout=2.2

1975 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.0750000000000004,delta_out=0.6249999999999989,xin=2.35,xout=2.25

1980 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.0750000000000004,delta_out=0.8499999999999985,xin=2.35,xout=2.3

1985 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.3,delta_out=0.1749999999999996,xin=2.4,xout=2.15

1990 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.3,delta_out=0.40000000000000036,xin=2.4,xout=2.2

1995 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.3,delta_out=0.6249999999999989,xin=2.4,xout=2.25

2000 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.3,delta_out=0.8499999999999985,xin=2.4,xout=2.3

2005 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.3,delta_out=1.0750000000000004,xin=2.4,xout=2.35

2010 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.5249999999999997,delta_out=0.1749999999999996,xin=2.45,xout=2.15

2015 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.5249999999999997,delta_out=0.40000000000000036,xin=2.45,xout=2.2

2020 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.5249999999999997,delta_out=0.6249999999999989,xin=2.45,xout=2.25

2025 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.5249999999999997,delta_out=0.8499999999999985,xin=2.45,xout=2.3

2030 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.5249999999999997,delta_out=1.0750000000000004,xin=2.45,xout=2.35

2035 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.5249999999999997,delta_out=1.3,xin=2.45,xout=2.4

2040 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.7499999999999993,delta_out=0.1749999999999996,xin=2.5,xout=2.15

2045 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.7499999999999993,delta_out=0.40000000000000036,xin=2.5,xout=2.2

2050 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.7499999999999993,delta_out=0.6249999999999989,xin=2.5,xout=2.25

2055 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.7499999999999993,delta_out=0.8499999999999985,xin=2.5,xout=2.3

2060 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.7499999999999993,delta_out=1.0750000000000004,xin=2.5,xout=2.35

2065 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.7499999999999993,delta_out=1.3,xin=2.5,xout=2.4

2070 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.7499999999999993,delta_out=1.5249999999999997,xin=2.5,xout=2.45

2075 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.974999999999999,delta_out=0.1749999999999996,xin=2.55,xout=2.15

2080 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.974999999999999,delta_out=0.40000000000000036,xin=2.55,xout=2.2

2085 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.974999999999999,delta_out=0.6249999999999989,xin=2.55,xout=2.25

2090 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.974999999999999,delta_out=0.8499999999999985,xin=2.55,xout=2.3

2095 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.974999999999999,delta_out=1.0750000000000004,xin=2.55,xout=2.35

2100 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.974999999999999,delta_out=1.3,xin=2.55,xout=2.4

2105 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.974999999999999,delta_out=1.5249999999999997,xin=2.55,xout=2.45

2110 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.974999999999999,delta_out=1.7499999999999993,xin=2.55,xout=2.5

2115 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.2000000000000006,delta_out=0.1749999999999996,xin=2.6,xout=2.15

2120 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.2000000000000006,delta_out=0.40000000000000036,xin=2.6,xout=2.2

2125 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.2000000000000006,delta_out=0.6249999999999989,xin=2.6,xout=2.25

2130 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.2000000000000006,delta_out=0.8499999999999985,xin=2.6,xout=2.3

2135 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.2000000000000006,delta_out=1.0750000000000004,xin=2.6,xout=2.35

2140 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.2000000000000006,delta_out=1.3,xin=2.6,xout=2.4

2145 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.2000000000000006,delta_out=1.5249999999999997,xin=2.6,xout=2.45

2150 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.2000000000000006,delta_out=1.7499999999999993,xin=2.6,xout=2.5

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2160 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.424999999999998,delta_out=0.1749999999999996,xin=2.65,xout=2.15

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2180 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.424999999999998,delta_out=1.0750000000000004,xin=2.65,xout=2.35

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2215 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.65,delta_out=0.40000000000000036,xin=2.7,xout=2.2

2220 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.65,delta_out=0.6249999999999989,xin=2.7,xout=2.25

2225 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.65,delta_out=0.8499999999999985,xin=2.7,xout=2.3

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2260 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.65,delta_out=2.424999999999998,xin=2.7,xout=2.65

2265 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.8749999999999996,delta_out=0.1749999999999996,xin=2.75,xout=2.15

2270 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.8749999999999996,delta_out=0.40000000000000036,xin=2.75,xout=2.2

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2280 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.8749999999999996,delta_out=0.8499999999999985,xin=2.75,xout=2.3

2285 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.8749999999999996,delta_out=1.0750000000000004,xin=2.75,xout=2.35

2290 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.8749999999999996,delta_out=1.3,xin=2.75,xout=2.4

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2325 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.099999999999999,delta_out=0.1749999999999996,xin=2.8,xout=2.15

2330 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.099999999999999,delta_out=0.40000000000000036,xin=2.8,xout=2.2

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2470 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.5499999999999985,delta_out=0.6249999999999989,xin=2.9,xout=2.25

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2730 no. graph's alpha=0.2,beta=0.3,gamma=0.5,delta_in=0.0,delta_out=0.34285714285714286,xin=3.0,xout=2.55

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2775 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.033333333333334096,delta_out=0.06666666666666672,xin=2.7,xout=2.3

2780 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.033333333333334096,delta_out=0.13333333333333344,xin=2.7,xout=2.35

2785 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.033333333333334096,delta_out=0.20000000000000015,xin=2.7,xout=2.4

2790 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.033333333333334096,delta_out=0.2666666666666669,xin=2.7,xout=2.45

2795 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.033333333333334096,delta_out=0.3333333333333336,xin=2.7,xout=2.5

2800 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.033333333333334096,delta_out=0.4000000000000003,xin=2.7,xout=2.55

2805 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.033333333333334096,delta_out=0.466666666666667,xin=2.7,xout=2.6

2810 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.033333333333334096,delta_out=0.5333333333333338,xin=2.7,xout=2.65

2815 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.08333333333333376,delta_out=0.06666666666666672,xin=2.75,xout=2.3

2820 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.08333333333333376,delta_out=0.13333333333333344,xin=2.75,xout=2.35

2825 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.08333333333333376,delta_out=0.20000000000000015,xin=2.75,xout=2.4

2830 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.08333333333333376,delta_out=0.2666666666666669,xin=2.75,xout=2.45

2835 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.08333333333333376,delta_out=0.3333333333333336,xin=2.75,xout=2.5

2840 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.08333333333333376,delta_out=0.4000000000000003,xin=2.75,xout=2.55

2845 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.08333333333333376,delta_out=0.466666666666667,xin=2.75,xout=2.6

2850 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.08333333333333376,delta_out=0.5333333333333338,xin=2.75,xout=2.65

2855 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.08333333333333376,delta_out=0.6000000000000004,xin=2.75,xout=2.7

2860 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.13333333333333344,delta_out=0.06666666666666672,xin=2.8,xout=2.3

2865 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.13333333333333344,delta_out=0.13333333333333344,xin=2.8,xout=2.35

2870 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.13333333333333344,delta_out=0.20000000000000015,xin=2.8,xout=2.4

2875 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.13333333333333344,delta_out=0.2666666666666669,xin=2.8,xout=2.45

2880 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.13333333333333344,delta_out=0.3333333333333336,xin=2.8,xout=2.5

2885 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.13333333333333344,delta_out=0.4000000000000003,xin=2.8,xout=2.55

2890 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.13333333333333344,delta_out=0.466666666666667,xin=2.8,xout=2.6

2895 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.13333333333333344,delta_out=0.5333333333333338,xin=2.8,xout=2.65

2900 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.13333333333333344,delta_out=0.6000000000000004,xin=2.8,xout=2.7

2905 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.13333333333333344,delta_out=0.6666666666666672,xin=2.8,xout=2.75

2910 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.18333333333333385,delta_out=0.06666666666666672,xin=2.85,xout=2.3

2915 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.18333333333333385,delta_out=0.13333333333333344,xin=2.85,xout=2.35

2920 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.18333333333333385,delta_out=0.20000000000000015,xin=2.85,xout=2.4

2925 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.18333333333333385,delta_out=0.2666666666666669,xin=2.85,xout=2.45

2930 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.18333333333333385,delta_out=0.3333333333333336,xin=2.85,xout=2.5

2935 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.18333333333333385,delta_out=0.4000000000000003,xin=2.85,xout=2.55

2940 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.18333333333333385,delta_out=0.466666666666667,xin=2.85,xout=2.6

2945 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.18333333333333385,delta_out=0.5333333333333338,xin=2.85,xout=2.65

2950 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.18333333333333385,delta_out=0.6000000000000004,xin=2.85,xout=2.7

2955 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.18333333333333385,delta_out=0.6666666666666672,xin=2.85,xout=2.75

2960 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.18333333333333385,delta_out=0.7333333333333332,xin=2.85,xout=2.8

2965 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.2333333333333335,delta_out=0.06666666666666672,xin=2.9,xout=2.3

2970 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.2333333333333335,delta_out=0.13333333333333344,xin=2.9,xout=2.35

2975 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.2333333333333335,delta_out=0.20000000000000015,xin=2.9,xout=2.4

2980 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.2333333333333335,delta_out=0.2666666666666669,xin=2.9,xout=2.45

2985 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.2333333333333335,delta_out=0.3333333333333336,xin=2.9,xout=2.5

2990 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.2333333333333335,delta_out=0.4000000000000003,xin=2.9,xout=2.55

2995 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.2333333333333335,delta_out=0.466666666666667,xin=2.9,xout=2.6

3000 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.2333333333333335,delta_out=0.5333333333333338,xin=2.9,xout=2.65

3005 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.2333333333333335,delta_out=0.6000000000000004,xin=2.9,xout=2.7

3010 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.2333333333333335,delta_out=0.6666666666666672,xin=2.9,xout=2.75

3015 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.2333333333333335,delta_out=0.7333333333333332,xin=2.9,xout=2.8

3020 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.2333333333333335,delta_out=0.8000000000000006,xin=2.9,xout=2.85

3025 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.28333333333333394,delta_out=0.06666666666666672,xin=2.95,xout=2.3

3030 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.28333333333333394,delta_out=0.13333333333333344,xin=2.95,xout=2.35

3035 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.28333333333333394,delta_out=0.20000000000000015,xin=2.95,xout=2.4

3040 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.28333333333333394,delta_out=0.2666666666666669,xin=2.95,xout=2.45

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3050 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.28333333333333394,delta_out=0.4000000000000003,xin=2.95,xout=2.55

3055 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.28333333333333394,delta_out=0.466666666666667,xin=2.95,xout=2.6

3060 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.28333333333333394,delta_out=0.5333333333333338,xin=2.95,xout=2.65

3065 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.28333333333333394,delta_out=0.6000000000000004,xin=2.95,xout=2.7

3070 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.28333333333333394,delta_out=0.6666666666666672,xin=2.95,xout=2.75

3075 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.28333333333333394,delta_out=0.7333333333333332,xin=2.95,xout=2.8

3080 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.28333333333333394,delta_out=0.8000000000000006,xin=2.95,xout=2.85

3085 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.28333333333333394,delta_out=0.8666666666666666,xin=2.95,xout=2.9

3090 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.3333333333333336,delta_out=0.06666666666666672,xin=3.0,xout=2.3

3095 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.3333333333333336,delta_out=0.13333333333333344,xin=3.0,xout=2.35

3100 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.3333333333333336,delta_out=0.20000000000000015,xin=3.0,xout=2.4

3105 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.3333333333333336,delta_out=0.2666666666666669,xin=3.0,xout=2.45

3110 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.3333333333333336,delta_out=0.3333333333333336,xin=3.0,xout=2.5

3115 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.3333333333333336,delta_out=0.4000000000000003,xin=3.0,xout=2.55

3120 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.3333333333333336,delta_out=0.466666666666667,xin=3.0,xout=2.6

3125 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.3333333333333336,delta_out=0.5333333333333338,xin=3.0,xout=2.65

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3135 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.3333333333333336,delta_out=0.6666666666666672,xin=3.0,xout=2.75

3140 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.3333333333333336,delta_out=0.7333333333333332,xin=3.0,xout=2.8

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3160 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.03000000000000025,delta_out=0.0,xin=2.45,xout=2.25

3165 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.03000000000000025,delta_out=0.07999999999999963,xin=2.45,xout=2.3

3170 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.03000000000000025,delta_out=0.16000000000000014,xin=2.45,xout=2.35

3175 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.03000000000000025,delta_out=0.23999999999999977,xin=2.45,xout=2.4

3180 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.10000000000000009,delta_out=0.0,xin=2.5,xout=2.25

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3190 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.10000000000000009,delta_out=0.16000000000000014,xin=2.5,xout=2.35

3195 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.10000000000000009,delta_out=0.23999999999999977,xin=2.5,xout=2.4

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3205 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.16999999999999948,delta_out=0.0,xin=2.55,xout=2.25

3210 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.16999999999999948,delta_out=0.07999999999999963,xin=2.55,xout=2.3

3215 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.16999999999999948,delta_out=0.16000000000000014,xin=2.55,xout=2.35

3220 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.16999999999999948,delta_out=0.23999999999999977,xin=2.55,xout=2.4

3225 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.16999999999999948,delta_out=0.3200000000000003,xin=2.55,xout=2.45

3230 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.16999999999999948,delta_out=0.3999999999999999,xin=2.55,xout=2.5

3235 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.23999999999999977,delta_out=0.0,xin=2.6,xout=2.25

3240 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.23999999999999977,delta_out=0.07999999999999963,xin=2.6,xout=2.3

3245 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.23999999999999977,delta_out=0.16000000000000014,xin=2.6,xout=2.35

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3255 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.23999999999999977,delta_out=0.3200000000000003,xin=2.6,xout=2.45

3260 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.23999999999999977,delta_out=0.3999999999999999,xin=2.6,xout=2.5

3265 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.23999999999999977,delta_out=0.48,xin=2.6,xout=2.55

3270 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.3099999999999996,delta_out=0.0,xin=2.65,xout=2.25

3275 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.3099999999999996,delta_out=0.07999999999999963,xin=2.65,xout=2.3

3280 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.3099999999999996,delta_out=0.16000000000000014,xin=2.65,xout=2.35

3285 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.3099999999999996,delta_out=0.23999999999999977,xin=2.65,xout=2.4

3290 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.3099999999999996,delta_out=0.3200000000000003,xin=2.65,xout=2.45

3295 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.3099999999999996,delta_out=0.3999999999999999,xin=2.65,xout=2.5

3300 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.3099999999999996,delta_out=0.48,xin=2.65,xout=2.55

3305 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.3099999999999996,delta_out=0.56,xin=2.65,xout=2.6

3310 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.3799999999999999,delta_out=0.0,xin=2.7,xout=2.25

3315 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.3799999999999999,delta_out=0.07999999999999963,xin=2.7,xout=2.3

3320 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.3799999999999999,delta_out=0.16000000000000014,xin=2.7,xout=2.35

3325 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.3799999999999999,delta_out=0.23999999999999977,xin=2.7,xout=2.4

3330 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.3799999999999999,delta_out=0.3200000000000003,xin=2.7,xout=2.45

3335 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.3799999999999999,delta_out=0.3999999999999999,xin=2.7,xout=2.5

3340 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.3799999999999999,delta_out=0.48,xin=2.7,xout=2.55

3345 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.3799999999999999,delta_out=0.56,xin=2.7,xout=2.6

3350 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.3799999999999999,delta_out=0.6400000000000001,xin=2.7,xout=2.65

3355 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.44999999999999973,delta_out=0.0,xin=2.75,xout=2.25

3360 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.44999999999999973,delta_out=0.07999999999999963,xin=2.75,xout=2.3

3365 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.44999999999999973,delta_out=0.16000000000000014,xin=2.75,xout=2.35

3370 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.44999999999999973,delta_out=0.23999999999999977,xin=2.75,xout=2.4

3375 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.44999999999999973,delta_out=0.3200000000000003,xin=2.75,xout=2.45

3380 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.44999999999999973,delta_out=0.3999999999999999,xin=2.75,xout=2.5

3385 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.44999999999999973,delta_out=0.48,xin=2.75,xout=2.55

3390 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.44999999999999973,delta_out=0.56,xin=2.75,xout=2.6

3395 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.44999999999999973,delta_out=0.6400000000000001,xin=2.75,xout=2.65

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3405 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.5199999999999996,delta_out=0.0,xin=2.8,xout=2.25

3410 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.5199999999999996,delta_out=0.07999999999999963,xin=2.8,xout=2.3

3415 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.5199999999999996,delta_out=0.16000000000000014,xin=2.8,xout=2.35

3420 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.5199999999999996,delta_out=0.23999999999999977,xin=2.8,xout=2.4

3425 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.5199999999999996,delta_out=0.3200000000000003,xin=2.8,xout=2.45

3430 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.5199999999999996,delta_out=0.3999999999999999,xin=2.8,xout=2.5

3435 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.5199999999999996,delta_out=0.48,xin=2.8,xout=2.55

3440 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.5199999999999996,delta_out=0.56,xin=2.8,xout=2.6

3445 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.5199999999999996,delta_out=0.6400000000000001,xin=2.8,xout=2.65

3450 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.5199999999999996,delta_out=0.7200000000000002,xin=2.8,xout=2.7

3455 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.5199999999999996,delta_out=0.8000000000000003,xin=2.8,xout=2.75

3460 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.5899999999999999,delta_out=0.0,xin=2.85,xout=2.25

3465 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.5899999999999999,delta_out=0.07999999999999963,xin=2.85,xout=2.3

3470 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.5899999999999999,delta_out=0.16000000000000014,xin=2.85,xout=2.35

3475 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.5899999999999999,delta_out=0.23999999999999977,xin=2.85,xout=2.4

3480 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.5899999999999999,delta_out=0.3200000000000003,xin=2.85,xout=2.45

3485 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.5899999999999999,delta_out=0.3999999999999999,xin=2.85,xout=2.5

3490 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.5899999999999999,delta_out=0.48,xin=2.85,xout=2.55

3495 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.5899999999999999,delta_out=0.56,xin=2.85,xout=2.6

3500 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.5899999999999999,delta_out=0.6400000000000001,xin=2.85,xout=2.65

3505 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.5899999999999999,delta_out=0.7200000000000002,xin=2.85,xout=2.7

3510 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.5899999999999999,delta_out=0.8000000000000003,xin=2.85,xout=2.75

3515 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.5899999999999999,delta_out=0.8799999999999994,xin=2.85,xout=2.8

3520 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.6599999999999997,delta_out=0.0,xin=2.9,xout=2.25

3525 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.6599999999999997,delta_out=0.07999999999999963,xin=2.9,xout=2.3

3530 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.6599999999999997,delta_out=0.16000000000000014,xin=2.9,xout=2.35

3535 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.6599999999999997,delta_out=0.23999999999999977,xin=2.9,xout=2.4

3540 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.6599999999999997,delta_out=0.3200000000000003,xin=2.9,xout=2.45

3545 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.6599999999999997,delta_out=0.3999999999999999,xin=2.9,xout=2.5

3550 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.6599999999999997,delta_out=0.48,xin=2.9,xout=2.55

3555 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.6599999999999997,delta_out=0.56,xin=2.9,xout=2.6

3560 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.6599999999999997,delta_out=0.6400000000000001,xin=2.9,xout=2.65

3565 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.6599999999999997,delta_out=0.7200000000000002,xin=2.9,xout=2.7

3570 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.6599999999999997,delta_out=0.8000000000000003,xin=2.9,xout=2.75

3575 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.6599999999999997,delta_out=0.8799999999999994,xin=2.9,xout=2.8

3580 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.6599999999999997,delta_out=0.9600000000000004,xin=2.9,xout=2.85

3585 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.73,delta_out=0.0,xin=2.95,xout=2.25

3590 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.73,delta_out=0.07999999999999963,xin=2.95,xout=2.3

3595 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.73,delta_out=0.16000000000000014,xin=2.95,xout=2.35

3600 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.73,delta_out=0.23999999999999977,xin=2.95,xout=2.4

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3610 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.73,delta_out=0.3999999999999999,xin=2.95,xout=2.5

3615 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.73,delta_out=0.48,xin=2.95,xout=2.55

3620 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.73,delta_out=0.56,xin=2.95,xout=2.6

3625 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.73,delta_out=0.6400000000000001,xin=2.95,xout=2.65

3630 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.73,delta_out=0.7200000000000002,xin=2.95,xout=2.7

3635 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.73,delta_out=0.8000000000000003,xin=2.95,xout=2.75

3640 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.73,delta_out=0.8799999999999994,xin=2.95,xout=2.8

3645 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.73,delta_out=0.9600000000000004,xin=2.95,xout=2.85

3650 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.73,delta_out=1.0399999999999996,xin=2.95,xout=2.9

3655 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.7999999999999994,delta_out=0.0,xin=3.0,xout=2.25

3660 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.7999999999999994,delta_out=0.07999999999999963,xin=3.0,xout=2.3

3665 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.7999999999999994,delta_out=0.16000000000000014,xin=3.0,xout=2.35

3670 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.7999999999999994,delta_out=0.23999999999999977,xin=3.0,xout=2.4

3675 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.7999999999999994,delta_out=0.3200000000000003,xin=3.0,xout=2.45

3680 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.7999999999999994,delta_out=0.3999999999999999,xin=3.0,xout=2.5

3685 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.7999999999999994,delta_out=0.48,xin=3.0,xout=2.55

3690 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.7999999999999994,delta_out=0.56,xin=3.0,xout=2.6

3695 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.7999999999999994,delta_out=0.6400000000000001,xin=3.0,xout=2.65

3700 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.7999999999999994,delta_out=0.7200000000000002,xin=3.0,xout=2.7

3705 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.7999999999999994,delta_out=0.8000000000000003,xin=3.0,xout=2.75

3710 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.7999999999999994,delta_out=0.8799999999999994,xin=3.0,xout=2.8

3715 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.7999999999999994,delta_out=0.9600000000000004,xin=3.0,xout=2.85

3720 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.7999999999999994,delta_out=1.0399999999999996,xin=3.0,xout=2.9

3725 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.7999999999999994,delta_out=1.1200000000000006,xin=3.0,xout=2.95

3730 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.10000000000000009,delta_out=5.551115123125783e-16,xin=2.3,xout=2.25

3735 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.20000000000000018,delta_out=5.551115123125783e-16,xin=2.35,xout=2.25

3740 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.20000000000000018,delta_out=0.09999999999999953,xin=2.35,xout=2.3

3745 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.30000000000000027,delta_out=5.551115123125783e-16,xin=2.4,xout=2.25

3750 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.30000000000000027,delta_out=0.09999999999999953,xin=2.4,xout=2.3

3755 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.30000000000000027,delta_out=0.20000000000000073,xin=2.4,xout=2.35

3760 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.40000000000000036,delta_out=5.551115123125783e-16,xin=2.45,xout=2.25

3765 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.40000000000000036,delta_out=0.09999999999999953,xin=2.45,xout=2.3

3770 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.40000000000000036,delta_out=0.20000000000000073,xin=2.45,xout=2.35

3775 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.40000000000000036,delta_out=0.2999999999999997,xin=2.45,xout=2.4

3780 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.5000000000000004,delta_out=5.551115123125783e-16,xin=2.5,xout=2.25

3785 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.5000000000000004,delta_out=0.09999999999999953,xin=2.5,xout=2.3

3790 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.5000000000000004,delta_out=0.20000000000000073,xin=2.5,xout=2.35

3795 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.5000000000000004,delta_out=0.2999999999999997,xin=2.5,xout=2.4

3800 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.5000000000000004,delta_out=0.4000000000000009,xin=2.5,xout=2.45

3805 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.6000000000000005,delta_out=5.551115123125783e-16,xin=2.55,xout=2.25

3810 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.6000000000000005,delta_out=0.09999999999999953,xin=2.55,xout=2.3

3815 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.6000000000000005,delta_out=0.20000000000000073,xin=2.55,xout=2.35

3820 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.6000000000000005,delta_out=0.2999999999999997,xin=2.55,xout=2.4

3825 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.6000000000000005,delta_out=0.4000000000000009,xin=2.55,xout=2.45

3830 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.6000000000000005,delta_out=0.4999999999999999,xin=2.55,xout=2.5

3835 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.7000000000000006,delta_out=5.551115123125783e-16,xin=2.6,xout=2.25

3840 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.7000000000000006,delta_out=0.09999999999999953,xin=2.6,xout=2.3

3845 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.7000000000000006,delta_out=0.20000000000000073,xin=2.6,xout=2.35

3850 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.7000000000000006,delta_out=0.2999999999999997,xin=2.6,xout=2.4

3855 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.7000000000000006,delta_out=0.4000000000000009,xin=2.6,xout=2.45

3860 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.7000000000000006,delta_out=0.4999999999999999,xin=2.6,xout=2.5

3865 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.7000000000000006,delta_out=0.6,xin=2.6,xout=2.55

3870 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.8000000000000007,delta_out=5.551115123125783e-16,xin=2.65,xout=2.25

3875 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.8000000000000007,delta_out=0.09999999999999953,xin=2.65,xout=2.3

3880 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.8000000000000007,delta_out=0.20000000000000073,xin=2.65,xout=2.35

3885 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.8000000000000007,delta_out=0.2999999999999997,xin=2.65,xout=2.4

3890 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.8000000000000007,delta_out=0.4000000000000009,xin=2.65,xout=2.45

3895 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.8000000000000007,delta_out=0.4999999999999999,xin=2.65,xout=2.5

3900 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.8000000000000007,delta_out=0.6,xin=2.65,xout=2.55

3905 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.8000000000000007,delta_out=0.7000000000000001,xin=2.65,xout=2.6

3910 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.9000000000000008,delta_out=5.551115123125783e-16,xin=2.7,xout=2.25

3915 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.9000000000000008,delta_out=0.09999999999999953,xin=2.7,xout=2.3

3920 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.9000000000000008,delta_out=0.20000000000000073,xin=2.7,xout=2.35

3925 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.9000000000000008,delta_out=0.2999999999999997,xin=2.7,xout=2.4

3930 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.9000000000000008,delta_out=0.4000000000000009,xin=2.7,xout=2.45

3935 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.9000000000000008,delta_out=0.4999999999999999,xin=2.7,xout=2.5

3940 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.9000000000000008,delta_out=0.6,xin=2.7,xout=2.55

3945 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.9000000000000008,delta_out=0.7000000000000001,xin=2.7,xout=2.6

3950 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.9000000000000008,delta_out=0.8000000000000002,xin=2.7,xout=2.65

3955 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.9999999999999998,delta_out=5.551115123125783e-16,xin=2.75,xout=2.25

3960 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.9999999999999998,delta_out=0.09999999999999953,xin=2.75,xout=2.3

3965 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.9999999999999998,delta_out=0.20000000000000073,xin=2.75,xout=2.35

3970 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.9999999999999998,delta_out=0.2999999999999997,xin=2.75,xout=2.4

3975 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.9999999999999998,delta_out=0.4000000000000009,xin=2.75,xout=2.45

3980 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.9999999999999998,delta_out=0.4999999999999999,xin=2.75,xout=2.5

3985 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.9999999999999998,delta_out=0.6,xin=2.75,xout=2.55

3990 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.9999999999999998,delta_out=0.7000000000000001,xin=2.75,xout=2.6

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4015 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.0999999999999988,delta_out=0.20000000000000073,xin=2.8,xout=2.35

4020 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.0999999999999988,delta_out=0.2999999999999997,xin=2.8,xout=2.4

4025 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.0999999999999988,delta_out=0.4000000000000009,xin=2.8,xout=2.45

4030 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.0999999999999988,delta_out=0.4999999999999999,xin=2.8,xout=2.5

4035 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.0999999999999988,delta_out=0.6,xin=2.8,xout=2.55

4040 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.0999999999999988,delta_out=0.7000000000000001,xin=2.8,xout=2.6

4045 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.0999999999999988,delta_out=0.8000000000000002,xin=2.8,xout=2.65

4050 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.0999999999999988,delta_out=0.9000000000000002,xin=2.8,xout=2.7

4055 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.0999999999999988,delta_out=1.0000000000000002,xin=2.8,xout=2.75

4060 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.2,delta_out=5.551115123125783e-16,xin=2.85,xout=2.25

4065 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.2,delta_out=0.09999999999999953,xin=2.85,xout=2.3

4070 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.2,delta_out=0.20000000000000073,xin=2.85,xout=2.35

4075 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.2,delta_out=0.2999999999999997,xin=2.85,xout=2.4

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4105 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.2,delta_out=0.9000000000000002,xin=2.85,xout=2.7

4110 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.2,delta_out=1.0000000000000002,xin=2.85,xout=2.75

4115 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.2,delta_out=1.0999999999999992,xin=2.85,xout=2.8

4120 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.299999999999999,delta_out=5.551115123125783e-16,xin=2.9,xout=2.25

4125 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.299999999999999,delta_out=0.09999999999999953,xin=2.9,xout=2.3

4130 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.299999999999999,delta_out=0.20000000000000073,xin=2.9,xout=2.35

4135 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.299999999999999,delta_out=0.2999999999999997,xin=2.9,xout=2.4

4140 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.299999999999999,delta_out=0.4000000000000009,xin=2.9,xout=2.45

4145 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.299999999999999,delta_out=0.4999999999999999,xin=2.9,xout=2.5

4150 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.299999999999999,delta_out=0.6,xin=2.9,xout=2.55

4155 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.299999999999999,delta_out=0.7000000000000001,xin=2.9,xout=2.6

4160 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.299999999999999,delta_out=0.8000000000000002,xin=2.9,xout=2.65

4165 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.299999999999999,delta_out=0.9000000000000002,xin=2.9,xout=2.7

4170 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.299999999999999,delta_out=1.0000000000000002,xin=2.9,xout=2.75

4175 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.299999999999999,delta_out=1.0999999999999992,xin=2.9,xout=2.8

4180 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.299999999999999,delta_out=1.2000000000000004,xin=2.9,xout=2.85

4185 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.4000000000000001,delta_out=5.551115123125783e-16,xin=2.95,xout=2.25

4190 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.4000000000000001,delta_out=0.09999999999999953,xin=2.95,xout=2.3

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4205 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.4000000000000001,delta_out=0.4000000000000009,xin=2.95,xout=2.45

4210 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.4000000000000001,delta_out=0.4999999999999999,xin=2.95,xout=2.5

4215 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.4000000000000001,delta_out=0.6,xin=2.95,xout=2.55

4220 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.4000000000000001,delta_out=0.7000000000000001,xin=2.95,xout=2.6

4225 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.4000000000000001,delta_out=0.8000000000000002,xin=2.95,xout=2.65

4230 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.4000000000000001,delta_out=0.9000000000000002,xin=2.95,xout=2.7

4235 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.4000000000000001,delta_out=1.0000000000000002,xin=2.95,xout=2.75

4240 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.4000000000000001,delta_out=1.0999999999999992,xin=2.95,xout=2.8

4245 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.4000000000000001,delta_out=1.2000000000000004,xin=2.95,xout=2.85

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4260 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.5000000000000002,delta_out=0.09999999999999953,xin=3.0,xout=2.3

4265 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.5000000000000002,delta_out=0.20000000000000073,xin=3.0,xout=2.35

4270 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.5000000000000002,delta_out=0.2999999999999997,xin=3.0,xout=2.4

4275 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.5000000000000002,delta_out=0.4000000000000009,xin=3.0,xout=2.45

4280 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.5000000000000002,delta_out=0.4999999999999999,xin=3.0,xout=2.5

4285 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.5000000000000002,delta_out=0.6,xin=3.0,xout=2.55

4290 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.5000000000000002,delta_out=0.7000000000000001,xin=3.0,xout=2.6

4295 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.5000000000000002,delta_out=0.8000000000000002,xin=3.0,xout=2.65

4300 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.5000000000000002,delta_out=0.9000000000000002,xin=3.0,xout=2.7

4305 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.5000000000000002,delta_out=1.0000000000000002,xin=3.0,xout=2.75

4310 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.5000000000000002,delta_out=1.0999999999999992,xin=3.0,xout=2.8

4315 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.5000000000000002,delta_out=1.2000000000000004,xin=3.0,xout=2.85

4320 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.5000000000000002,delta_out=1.2999999999999994,xin=3.0,xout=2.9

4325 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.5000000000000002,delta_out=1.4000000000000006,xin=3.0,xout=2.95

4330 no. graph's alpha=0.3,beta=0.2,gamma=0.5,delta_in=0.0,delta_out=0.018750000000000155,xin=3.0,xout=2.45

4335 no. graph's alpha=0.3,beta=0.2,gamma=0.5,delta_in=0.0,delta_out=0.06250000000000006,xin=3.0,xout=2.5

4340 no. graph's alpha=0.3,beta=0.2,gamma=0.5,delta_in=0.0,delta_out=0.10624999999999968,xin=3.0,xout=2.55

4345 no. graph's alpha=0.3,beta=0.2,gamma=0.5,delta_in=0.0,delta_out=0.14999999999999986,xin=3.0,xout=2.6

4350 no. graph's alpha=0.3,beta=0.2,gamma=0.5,delta_in=0.0,delta_out=0.19374999999999976,xin=3.0,xout=2.65

4355 no. graph's alpha=0.3,beta=0.2,gamma=0.5,delta_in=0.0,delta_out=0.23749999999999993,xin=3.0,xout=2.7

4360 no. graph's alpha=0.3,beta=0.2,gamma=0.5,delta_in=0.0,delta_out=0.28124999999999983,xin=3.0,xout=2.75

4365 no. graph's alpha=0.3,beta=0.2,gamma=0.5,delta_in=0.0,delta_out=0.32499999999999973,xin=3.0,xout=2.8

4370 no. graph's alpha=0.3,beta=0.2,gamma=0.5,delta_in=0.0,delta_out=0.3687499999999999,xin=3.0,xout=2.85

4375 no. graph's alpha=0.3,beta=0.2,gamma=0.5,delta_in=0.0,delta_out=0.4124999999999998,xin=3.0,xout=2.9

4380 no. graph's alpha=0.3,beta=0.2,gamma=0.5,delta_in=0.0,delta_out=0.45625,xin=3.0,xout=2.95

4385 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.0285714285714286,delta_out=0.02142857142857161,xin=2.7,xout=2.45

4390 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.0285714285714286,delta_out=0.07142857142857117,xin=2.7,xout=2.5

4395 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.0285714285714286,delta_out=0.12142857142857075,xin=2.7,xout=2.55

4400 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.0285714285714286,delta_out=0.17142857142857096,xin=2.7,xout=2.6

4405 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.0285714285714286,delta_out=0.22142857142857117,xin=2.7,xout=2.65

4410 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.07142857142857117,delta_out=0.02142857142857161,xin=2.75,xout=2.45

4415 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.07142857142857117,delta_out=0.07142857142857117,xin=2.75,xout=2.5

4420 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.07142857142857117,delta_out=0.12142857142857075,xin=2.75,xout=2.55

4425 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.07142857142857117,delta_out=0.17142857142857096,xin=2.75,xout=2.6

4430 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.07142857142857117,delta_out=0.22142857142857117,xin=2.75,xout=2.65

4435 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.07142857142857117,delta_out=0.27142857142857135,xin=2.75,xout=2.7

4440 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.11428571428571407,delta_out=0.02142857142857161,xin=2.8,xout=2.45

4445 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.11428571428571407,delta_out=0.07142857142857117,xin=2.8,xout=2.5

4450 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.11428571428571407,delta_out=0.12142857142857075,xin=2.8,xout=2.55

4455 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.11428571428571407,delta_out=0.17142857142857096,xin=2.8,xout=2.6

4460 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.11428571428571407,delta_out=0.22142857142857117,xin=2.8,xout=2.65

4465 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.11428571428571407,delta_out=0.27142857142857135,xin=2.8,xout=2.7

4470 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.11428571428571407,delta_out=0.32142857142857095,xin=2.8,xout=2.75

4475 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.15714285714285697,delta_out=0.02142857142857161,xin=2.85,xout=2.45

4480 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.15714285714285697,delta_out=0.07142857142857117,xin=2.85,xout=2.5

4485 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.15714285714285697,delta_out=0.12142857142857075,xin=2.85,xout=2.55

4490 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.15714285714285697,delta_out=0.17142857142857096,xin=2.85,xout=2.6

4495 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.15714285714285697,delta_out=0.22142857142857117,xin=2.85,xout=2.65

4500 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.15714285714285697,delta_out=0.27142857142857135,xin=2.85,xout=2.7

4505 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.15714285714285697,delta_out=0.32142857142857095,xin=2.85,xout=2.75

4510 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.15714285714285697,delta_out=0.37142857142857116,xin=2.85,xout=2.8

4515 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.19999999999999987,delta_out=0.02142857142857161,xin=2.9,xout=2.45

4520 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.19999999999999987,delta_out=0.07142857142857117,xin=2.9,xout=2.5

4525 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.19999999999999987,delta_out=0.12142857142857075,xin=2.9,xout=2.55

4530 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.19999999999999987,delta_out=0.17142857142857096,xin=2.9,xout=2.6

4535 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.19999999999999987,delta_out=0.22142857142857117,xin=2.9,xout=2.65

4540 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.19999999999999987,delta_out=0.27142857142857135,xin=2.9,xout=2.7

4545 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.19999999999999987,delta_out=0.32142857142857095,xin=2.9,xout=2.75

4550 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.19999999999999987,delta_out=0.37142857142857116,xin=2.9,xout=2.8

4555 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.19999999999999987,delta_out=0.4214285714285714,xin=2.9,xout=2.85

4560 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.24285714285714277,delta_out=0.02142857142857161,xin=2.95,xout=2.45

4565 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.24285714285714277,delta_out=0.07142857142857117,xin=2.95,xout=2.5

4570 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.24285714285714277,delta_out=0.12142857142857075,xin=2.95,xout=2.55

4575 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.24285714285714277,delta_out=0.17142857142857096,xin=2.95,xout=2.6

4580 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.24285714285714277,delta_out=0.22142857142857117,xin=2.95,xout=2.65

4585 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.24285714285714277,delta_out=0.27142857142857135,xin=2.95,xout=2.7

4590 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.24285714285714277,delta_out=0.32142857142857095,xin=2.95,xout=2.75

4595 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.24285714285714277,delta_out=0.37142857142857116,xin=2.95,xout=2.8

4600 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.24285714285714277,delta_out=0.4214285714285714,xin=2.95,xout=2.85

4605 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.24285714285714277,delta_out=0.4714285714285709,xin=2.95,xout=2.9

4610 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.28571428571428537,delta_out=0.02142857142857161,xin=3.0,xout=2.45

4615 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.28571428571428537,delta_out=0.07142857142857117,xin=3.0,xout=2.5

4620 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.28571428571428537,delta_out=0.12142857142857075,xin=3.0,xout=2.55

4625 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.28571428571428537,delta_out=0.17142857142857096,xin=3.0,xout=2.6

4630 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.28571428571428537,delta_out=0.22142857142857117,xin=3.0,xout=2.65

4635 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.28571428571428537,delta_out=0.27142857142857135,xin=3.0,xout=2.7

4640 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.28571428571428537,delta_out=0.32142857142857095,xin=3.0,xout=2.75

4645 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.28571428571428537,delta_out=0.37142857142857116,xin=3.0,xout=2.8

4650 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.28571428571428537,delta_out=0.4214285714285714,xin=3.0,xout=2.85

4655 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.28571428571428537,delta_out=0.4714285714285709,xin=3.0,xout=2.9

4660 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.28571428571428537,delta_out=0.5214285714285711,xin=3.0,xout=2.95

4665 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.08333333333333304,delta_out=0.02499999999999984,xin=2.5,xout=2.45

4670 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.14166666666666589,delta_out=0.02499999999999984,xin=2.55,xout=2.45

4675 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.14166666666666589,delta_out=0.08333333333333341,xin=2.55,xout=2.5

4680 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.19999999999999946,delta_out=0.02499999999999984,xin=2.6,xout=2.45

4685 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.19999999999999946,delta_out=0.08333333333333341,xin=2.6,xout=2.5

4690 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.19999999999999946,delta_out=0.14166666666666625,xin=2.6,xout=2.55

4695 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.258333333333333,delta_out=0.02499999999999984,xin=2.65,xout=2.45

4700 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.258333333333333,delta_out=0.08333333333333341,xin=2.65,xout=2.5

4705 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.258333333333333,delta_out=0.14166666666666625,xin=2.65,xout=2.55

4710 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.258333333333333,delta_out=0.19999999999999982,xin=2.65,xout=2.6

4715 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.3166666666666666,delta_out=0.02499999999999984,xin=2.7,xout=2.45

4720 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.3166666666666666,delta_out=0.08333333333333341,xin=2.7,xout=2.5

4725 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.3166666666666666,delta_out=0.14166666666666625,xin=2.7,xout=2.55

4730 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.3166666666666666,delta_out=0.19999999999999982,xin=2.7,xout=2.6

4735 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.3166666666666666,delta_out=0.25833333333333264,xin=2.7,xout=2.65

4740 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.37499999999999944,delta_out=0.02499999999999984,xin=2.75,xout=2.45

4745 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.37499999999999944,delta_out=0.08333333333333341,xin=2.75,xout=2.5

4750 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.37499999999999944,delta_out=0.14166666666666625,xin=2.75,xout=2.55

4755 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.37499999999999944,delta_out=0.19999999999999982,xin=2.75,xout=2.6

4760 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.37499999999999944,delta_out=0.25833333333333264,xin=2.75,xout=2.65

4765 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.37499999999999944,delta_out=0.3166666666666662,xin=2.75,xout=2.7

4770 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.433333333333333,delta_out=0.02499999999999984,xin=2.8,xout=2.45

4775 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.433333333333333,delta_out=0.08333333333333341,xin=2.8,xout=2.5

4780 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.433333333333333,delta_out=0.14166666666666625,xin=2.8,xout=2.55

4785 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.433333333333333,delta_out=0.19999999999999982,xin=2.8,xout=2.6

4790 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.433333333333333,delta_out=0.25833333333333264,xin=2.8,xout=2.65

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4800 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.433333333333333,delta_out=0.3749999999999998,xin=2.8,xout=2.75

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4810 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.4916666666666666,delta_out=0.08333333333333341,xin=2.85,xout=2.5

4815 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.4916666666666666,delta_out=0.14166666666666625,xin=2.85,xout=2.55

4820 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.4916666666666666,delta_out=0.19999999999999982,xin=2.85,xout=2.6

4825 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.4916666666666666,delta_out=0.25833333333333264,xin=2.85,xout=2.65

4830 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.4916666666666666,delta_out=0.3166666666666662,xin=2.85,xout=2.7

4835 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.4916666666666666,delta_out=0.3749999999999998,xin=2.85,xout=2.75

4840 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.4916666666666666,delta_out=0.4333333333333326,xin=2.85,xout=2.8

4845 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.5499999999999994,delta_out=0.02499999999999984,xin=2.9,xout=2.45

4850 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.5499999999999994,delta_out=0.08333333333333341,xin=2.9,xout=2.5

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4860 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.5499999999999994,delta_out=0.19999999999999982,xin=2.9,xout=2.6

4865 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.5499999999999994,delta_out=0.25833333333333264,xin=2.9,xout=2.65

4870 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.5499999999999994,delta_out=0.3166666666666662,xin=2.9,xout=2.7

4875 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.5499999999999994,delta_out=0.3749999999999998,xin=2.9,xout=2.75

4880 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.5499999999999994,delta_out=0.4333333333333326,xin=2.9,xout=2.8

4885 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.5499999999999994,delta_out=0.4916666666666662,xin=2.9,xout=2.85

4890 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.608333333333333,delta_out=0.02499999999999984,xin=2.95,xout=2.45

4895 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.608333333333333,delta_out=0.08333333333333341,xin=2.95,xout=2.5

4900 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.608333333333333,delta_out=0.14166666666666625,xin=2.95,xout=2.55

4905 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.608333333333333,delta_out=0.19999999999999982,xin=2.95,xout=2.6

4910 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.608333333333333,delta_out=0.25833333333333264,xin=2.95,xout=2.65

4915 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.608333333333333,delta_out=0.3166666666666662,xin=2.95,xout=2.7

4920 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.608333333333333,delta_out=0.3749999999999998,xin=2.95,xout=2.75

4925 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.608333333333333,delta_out=0.4333333333333326,xin=2.95,xout=2.8

4930 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.608333333333333,delta_out=0.4916666666666662,xin=2.95,xout=2.85

4935 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.608333333333333,delta_out=0.5499999999999998,xin=2.95,xout=2.9

4940 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.6666666666666659,delta_out=0.02499999999999984,xin=3.0,xout=2.45

4945 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.6666666666666659,delta_out=0.08333333333333341,xin=3.0,xout=2.5

4950 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.6666666666666659,delta_out=0.14166666666666625,xin=3.0,xout=2.55

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4960 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.6666666666666659,delta_out=0.25833333333333264,xin=3.0,xout=2.65

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4970 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.6666666666666659,delta_out=0.3749999999999998,xin=3.0,xout=2.75

4975 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.6666666666666659,delta_out=0.4333333333333326,xin=3.0,xout=2.8

4980 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.6666666666666659,delta_out=0.4916666666666662,xin=3.0,xout=2.85

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5005 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.48,delta_out=0.10000000000000009,xin=2.55,xout=2.5

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5020 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.56,delta_out=0.16999999999999948,xin=2.6,xout=2.55

5025 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.6400000000000001,delta_out=0.03000000000000025,xin=2.65,xout=2.45

5030 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.6400000000000001,delta_out=0.10000000000000009,xin=2.65,xout=2.5

5035 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.6400000000000001,delta_out=0.16999999999999948,xin=2.65,xout=2.55

5040 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.6400000000000001,delta_out=0.23999999999999977,xin=2.65,xout=2.6

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5060 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.7200000000000002,delta_out=0.23999999999999977,xin=2.7,xout=2.6

5065 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.7200000000000002,delta_out=0.3099999999999996,xin=2.7,xout=2.65

5070 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.8000000000000003,delta_out=0.03000000000000025,xin=2.75,xout=2.45

5075 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.8000000000000003,delta_out=0.10000000000000009,xin=2.75,xout=2.5

5080 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.8000000000000003,delta_out=0.16999999999999948,xin=2.75,xout=2.55

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5100 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.8799999999999994,delta_out=0.03000000000000025,xin=2.8,xout=2.45

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5115 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.8799999999999994,delta_out=0.23999999999999977,xin=2.8,xout=2.6

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5135 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.9600000000000004,delta_out=0.03000000000000025,xin=2.85,xout=2.45

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5165 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.9600000000000004,delta_out=0.44999999999999973,xin=2.85,xout=2.75

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5210 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=1.04,delta_out=0.5199999999999996,xin=2.9,xout=2.8

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5220 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=1.120000000000001,delta_out=0.03000000000000025,xin=2.95,xout=2.45

5225 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=1.120000000000001,delta_out=0.10000000000000009,xin=2.95,xout=2.5

5230 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=1.120000000000001,delta_out=0.16999999999999948,xin=2.95,xout=2.55

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5260 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=1.120000000000001,delta_out=0.5899999999999999,xin=2.95,xout=2.85

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5270 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=1.200000000000001,delta_out=0.03000000000000025,xin=3.0,xout=2.45

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5280 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=1.200000000000001,delta_out=0.16999999999999948,xin=3.0,xout=2.55

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5315 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=1.200000000000001,delta_out=0.6599999999999997,xin=3.0,xout=2.9

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5330 no. graph's alpha=0.4,beta=0.1,gamma=0.5,delta_in=0.0,delta_out=0.05555555555555536,xin=3.0,xout=2.75

5335 no. graph's alpha=0.4,beta=0.1,gamma=0.5,delta_in=0.0,delta_out=0.08888888888888873,xin=3.0,xout=2.8

5340 no. graph's alpha=0.4,beta=0.1,gamma=0.5,delta_in=0.0,delta_out=0.12222222222222208,xin=3.0,xout=2.85

5345 no. graph's alpha=0.4,beta=0.1,gamma=0.5,delta_in=0.0,delta_out=0.15555555555555545,xin=3.0,xout=2.9

5350 no. graph's alpha=0.4,beta=0.1,gamma=0.5,delta_in=0.0,delta_out=0.1888888888888888,xin=3.0,xout=2.95

5355 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.06250000000000061,delta_out=0.025000000000000577,xin=2.75,xout=2.7

5360 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.10000000000000037,delta_out=0.025000000000000577,xin=2.8,xout=2.7

5365 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.10000000000000037,delta_out=0.06250000000000033,xin=2.8,xout=2.75

5370 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.13750000000000068,delta_out=0.025000000000000577,xin=2.85,xout=2.7

5375 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.13750000000000068,delta_out=0.06250000000000033,xin=2.85,xout=2.75

5380 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.13750000000000068,delta_out=0.10000000000000009,xin=2.85,xout=2.8

5385 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.17500000000000043,delta_out=0.025000000000000577,xin=2.9,xout=2.7

5390 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.17500000000000043,delta_out=0.06250000000000033,xin=2.9,xout=2.75

5395 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.17500000000000043,delta_out=0.10000000000000009,xin=2.9,xout=2.8

5400 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.17500000000000043,delta_out=0.1375000000000004,xin=2.9,xout=2.85

5405 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.21250000000000074,delta_out=0.025000000000000577,xin=2.95,xout=2.7

5410 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.21250000000000074,delta_out=0.06250000000000033,xin=2.95,xout=2.75

5415 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.21250000000000074,delta_out=0.10000000000000009,xin=2.95,xout=2.8

5420 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.21250000000000074,delta_out=0.1375000000000004,xin=2.95,xout=2.85

5425 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.21250000000000074,delta_out=0.17500000000000016,xin=2.95,xout=2.9

5430 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.2500000000000005,delta_out=0.025000000000000577,xin=3.0,xout=2.7

5435 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.2500000000000005,delta_out=0.06250000000000033,xin=3.0,xout=2.75

5440 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.2500000000000005,delta_out=0.10000000000000009,xin=3.0,xout=2.8

5445 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.2500000000000005,delta_out=0.1375000000000004,xin=3.0,xout=2.85

5450 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.2500000000000005,delta_out=0.17500000000000016,xin=3.0,xout=2.9

5455 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.2500000000000005,delta_out=0.21250000000000047,xin=3.0,xout=2.95

5460 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.3214285714285713,delta_out=0.0285714285714286,xin=2.75,xout=2.7

5465 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.37142857142857083,delta_out=0.0285714285714286,xin=2.8,xout=2.7

5470 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.37142857142857083,delta_out=0.07142857142857117,xin=2.8,xout=2.75

5475 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.42142857142857104,delta_out=0.0285714285714286,xin=2.85,xout=2.7

5480 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.42142857142857104,delta_out=0.07142857142857117,xin=2.85,xout=2.75

5485 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.42142857142857104,delta_out=0.11428571428571407,xin=2.85,xout=2.8

5490 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.47142857142857125,delta_out=0.0285714285714286,xin=2.9,xout=2.7

5495 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.47142857142857125,delta_out=0.07142857142857117,xin=2.9,xout=2.75

5500 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.47142857142857125,delta_out=0.11428571428571407,xin=2.9,xout=2.8

5505 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.47142857142857125,delta_out=0.15714285714285697,xin=2.9,xout=2.85

5510 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.5214285714285715,delta_out=0.0285714285714286,xin=2.95,xout=2.7

5515 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.5214285714285715,delta_out=0.07142857142857117,xin=2.95,xout=2.75

5520 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.5214285714285715,delta_out=0.11428571428571407,xin=2.95,xout=2.8

5525 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.5214285714285715,delta_out=0.15714285714285697,xin=2.95,xout=2.85

5530 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.5214285714285715,delta_out=0.19999999999999987,xin=2.95,xout=2.9

5535 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.5714285714285711,delta_out=0.0285714285714286,xin=3.0,xout=2.7

5540 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.5714285714285711,delta_out=0.07142857142857117,xin=3.0,xout=2.75

5545 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.5714285714285711,delta_out=0.11428571428571407,xin=3.0,xout=2.8

5550 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.5714285714285711,delta_out=0.15714285714285697,xin=3.0,xout=2.85

5555 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.5714285714285711,delta_out=0.19999999999999987,xin=3.0,xout=2.9

5560 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.5714285714285711,delta_out=0.24285714285714277,xin=3.0,xout=2.95

5565 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.6666666666666672,delta_out=0.03333333333333373,xin=2.75,xout=2.7

5570 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.7333333333333332,delta_out=0.03333333333333373,xin=2.8,xout=2.7

5575 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.7333333333333332,delta_out=0.08333333333333413,xin=2.8,xout=2.75

5580 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.8000000000000006,delta_out=0.03333333333333373,xin=2.85,xout=2.7

5585 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.8000000000000006,delta_out=0.08333333333333413,xin=2.85,xout=2.75

5590 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.8000000000000006,delta_out=0.1333333333333338,xin=2.85,xout=2.8

5595 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.8666666666666666,delta_out=0.03333333333333373,xin=2.9,xout=2.7

5600 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.8666666666666666,delta_out=0.08333333333333413,xin=2.9,xout=2.75

5605 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.8666666666666666,delta_out=0.1333333333333338,xin=2.9,xout=2.8

5610 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.8666666666666666,delta_out=0.1833333333333342,xin=2.9,xout=2.85

5615 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.933333333333334,delta_out=0.03333333333333373,xin=2.95,xout=2.7

5620 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.933333333333334,delta_out=0.08333333333333413,xin=2.95,xout=2.75

5625 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.933333333333334,delta_out=0.1333333333333338,xin=2.95,xout=2.8

5630 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.933333333333334,delta_out=0.1833333333333342,xin=2.95,xout=2.85

5635 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.933333333333334,delta_out=0.23333333333333386,xin=2.95,xout=2.9

5640 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=1.0000000000000007,delta_out=0.03333333333333373,xin=3.0,xout=2.7

5645 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=1.0000000000000007,delta_out=0.08333333333333413,xin=3.0,xout=2.75

5650 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=1.0000000000000007,delta_out=0.1333333333333338,xin=3.0,xout=2.8

5655 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=1.0000000000000007,delta_out=0.1833333333333342,xin=3.0,xout=2.85

5660 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=1.0000000000000007,delta_out=0.23333333333333386,xin=3.0,xout=2.9

5665 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=1.0000000000000007,delta_out=0.28333333333333427,xin=3.0,xout=2.95

5670 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.1500000000000004,delta_out=0.040000000000000036,xin=2.75,xout=2.7

5675 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.2400000000000002,delta_out=0.040000000000000036,xin=2.8,xout=2.7

5680 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.2400000000000002,delta_out=0.09999999999999964,xin=2.8,xout=2.75

5685 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.33,delta_out=0.040000000000000036,xin=2.85,xout=2.7

5690 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.33,delta_out=0.09999999999999964,xin=2.85,xout=2.75

5695 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.33,delta_out=0.1599999999999997,xin=2.85,xout=2.8

5700 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.42,delta_out=0.040000000000000036,xin=2.9,xout=2.7

5705 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.42,delta_out=0.09999999999999964,xin=2.9,xout=2.75

5710 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.42,delta_out=0.1599999999999997,xin=2.9,xout=2.8

5715 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.42,delta_out=0.21999999999999975,xin=2.9,xout=2.85

5720 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.5100000000000007,delta_out=0.040000000000000036,xin=2.95,xout=2.7

5725 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.5100000000000007,delta_out=0.09999999999999964,xin=2.95,xout=2.75

5730 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.5100000000000007,delta_out=0.1599999999999997,xin=2.95,xout=2.8

5735 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.5100000000000007,delta_out=0.21999999999999975,xin=2.95,xout=2.85

5740 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.5100000000000007,delta_out=0.2799999999999998,xin=2.95,xout=2.9

5745 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.6000000000000005,delta_out=0.040000000000000036,xin=3.0,xout=2.7

5750 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.6000000000000005,delta_out=0.09999999999999964,xin=3.0,xout=2.75

5755 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.6000000000000005,delta_out=0.1599999999999997,xin=3.0,xout=2.8

5760 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.6000000000000005,delta_out=0.21999999999999975,xin=3.0,xout=2.85

5765 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.6000000000000005,delta_out=0.2799999999999998,xin=3.0,xout=2.9

5770 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.6000000000000005,delta_out=0.33999999999999986,xin=3.0,xout=2.95

Experiment-1's graph types for Xin <Xout:

In experiment-1, each 5 graph's types are same but graphs are different from each other;

because they are random graphs.

 But for showing graphs types,

we are going to show one graph type from each similar 5 graph's types.

For example, Here, we skip showing 1 no.,2 no.,3 no.,4 no. graph's type because they are similar to 5 no. graph's type. We represent 5 no graph's type behalf of 1 no.,2 no.,3 no.,4 no. graph's type.

5 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.040000000000000036,delta_out=1.1500000000000004,xin=2.7,xout=2.75

10 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.040000000000000036,delta_out=1.2400000000000002,xin=2.7,xout=2.8

15 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.040000000000000036,delta_out=1.33,xin=2.7,xout=2.85

20 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.040000000000000036,delta_out=1.42,xin=2.7,xout=2.9

25 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.040000000000000036,delta_out=1.5100000000000007,xin=2.7,xout=2.95

30 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.040000000000000036,delta_out=1.6000000000000005,xin=2.7,xout=3.0

35 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.09999999999999964,delta_out=1.2400000000000002,xin=2.75,xout=2.8

40 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.09999999999999964,delta_out=1.33,xin=2.75,xout=2.85

45 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.09999999999999964,delta_out=1.42,xin=2.75,xout=2.9

50 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.09999999999999964,delta_out=1.5100000000000007,xin=2.75,xout=2.95

55 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.09999999999999964,delta_out=1.6000000000000005,xin=2.75,xout=3.0

60 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.1599999999999997,delta_out=1.33,xin=2.8,xout=2.85

65 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.1599999999999997,delta_out=1.42,xin=2.8,xout=2.9

70 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.1599999999999997,delta_out=1.5100000000000007,xin=2.8,xout=2.95

75 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.1599999999999997,delta_out=1.6000000000000005,xin=2.8,xout=3.0

80 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.21999999999999975,delta_out=1.42,xin=2.85,xout=2.9

85 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.21999999999999975,delta_out=1.5100000000000007,xin=2.85,xout=2.95

90 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.21999999999999975,delta_out=1.6000000000000005,xin=2.85,xout=3.0

95 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.2799999999999998,delta_out=1.5100000000000007,xin=2.9,xout=2.95

100 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.2799999999999998,delta_out=1.6000000000000005,xin=2.9,xout=3.0

105 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.33999999999999986,delta_out=1.6000000000000005,xin=2.95,xout=3.0

110 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.03750000000000031,delta_out=0.8749999999999997,xin=2.45,xout=2.5

115 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.03750000000000031,delta_out=0.9874999999999984,xin=2.45,xout=2.55

120 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.03750000000000031,delta_out=1.0999999999999992,xin=2.45,xout=2.6

125 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.03750000000000031,delta_out=1.212499999999999,xin=2.45,xout=2.65

130 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.03750000000000031,delta_out=1.3249999999999988,xin=2.45,xout=2.7

135 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.03750000000000031,delta_out=1.4374999999999987,xin=2.45,xout=2.75

140 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.03750000000000031,delta_out=1.5499999999999985,xin=2.45,xout=2.8

145 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.03750000000000031,delta_out=1.6624999999999994,xin=2.45,xout=2.85

150 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.03750000000000031,delta_out=1.7749999999999992,xin=2.45,xout=2.9

155 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.03750000000000031,delta_out=1.887499999999999,xin=2.45,xout=2.95

160 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.03750000000000031,delta_out=1.999999999999999,xin=2.45,xout=3.0

165 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.12499999999999956,delta_out=0.9874999999999984,xin=2.5,xout=2.55

170 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.12499999999999956,delta_out=1.0999999999999992,xin=2.5,xout=2.6

175 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.12499999999999956,delta_out=1.212499999999999,xin=2.5,xout=2.65

180 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.12499999999999956,delta_out=1.3249999999999988,xin=2.5,xout=2.7

185 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.12499999999999956,delta_out=1.4374999999999987,xin=2.5,xout=2.75

190 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.12499999999999956,delta_out=1.5499999999999985,xin=2.5,xout=2.8

195 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.12499999999999956,delta_out=1.6624999999999994,xin=2.5,xout=2.85

200 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.12499999999999956,delta_out=1.7749999999999992,xin=2.5,xout=2.9

205 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.12499999999999956,delta_out=1.887499999999999,xin=2.5,xout=2.95

210 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.12499999999999956,delta_out=1.999999999999999,xin=2.5,xout=3.0

215 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.2124999999999988,delta_out=1.0999999999999992,xin=2.55,xout=2.6

220 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.2124999999999988,delta_out=1.212499999999999,xin=2.55,xout=2.65

225 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.2124999999999988,delta_out=1.3249999999999988,xin=2.55,xout=2.7

230 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.2124999999999988,delta_out=1.4374999999999987,xin=2.55,xout=2.75

235 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.2124999999999988,delta_out=1.5499999999999985,xin=2.55,xout=2.8

240 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.2124999999999988,delta_out=1.6624999999999994,xin=2.55,xout=2.85

245 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.2124999999999988,delta_out=1.7749999999999992,xin=2.55,xout=2.9

250 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.2124999999999988,delta_out=1.887499999999999,xin=2.55,xout=2.95

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265 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.29999999999999916,delta_out=1.3249999999999988,xin=2.6,xout=2.7

270 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.29999999999999916,delta_out=1.4374999999999987,xin=2.6,xout=2.75

275 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.29999999999999916,delta_out=1.5499999999999985,xin=2.6,xout=2.8

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895 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.3333333333333321,delta_out=2.2166666666666663,xin=2.75,xout=2.85

900 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.3333333333333321,delta_out=2.3666666666666663,xin=2.75,xout=2.9

905 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.3333333333333321,delta_out=2.5166666666666657,xin=2.75,xout=2.95

910 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.3333333333333321,delta_out=2.6666666666666656,xin=2.75,xout=3.0

915 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.4666666666666655,delta_out=2.2166666666666663,xin=2.8,xout=2.85

920 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.4666666666666655,delta_out=2.3666666666666663,xin=2.8,xout=2.9

925 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.4666666666666655,delta_out=2.5166666666666657,xin=2.8,xout=2.95

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935 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.599999999999999,delta_out=2.3666666666666663,xin=2.85,xout=2.9

940 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.599999999999999,delta_out=2.5166666666666657,xin=2.85,xout=2.95

945 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.599999999999999,delta_out=2.6666666666666656,xin=2.85,xout=3.0

950 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.7333333333333325,delta_out=2.5166666666666657,xin=2.9,xout=2.95

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965 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.1749999999999996,delta_out=0.40000000000000036,xin=2.15,xout=2.2

970 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.1749999999999996,delta_out=0.6249999999999989,xin=2.15,xout=2.25

975 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.1749999999999996,delta_out=0.8499999999999985,xin=2.15,xout=2.3

980 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.1749999999999996,delta_out=1.0750000000000004,xin=2.15,xout=2.35

985 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.1749999999999996,delta_out=1.3,xin=2.15,xout=2.4

990 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.1749999999999996,delta_out=1.5249999999999997,xin=2.15,xout=2.45

995 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.1749999999999996,delta_out=1.7499999999999993,xin=2.15,xout=2.5

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1005 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.1749999999999996,delta_out=2.2000000000000006,xin=2.15,xout=2.6

1010 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.1749999999999996,delta_out=2.424999999999998,xin=2.15,xout=2.65

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1025 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.1749999999999996,delta_out=3.099999999999999,xin=2.15,xout=2.8

1030 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.1749999999999996,delta_out=3.324999999999999,xin=2.15,xout=2.85

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1040 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.1749999999999996,delta_out=3.7750000000000004,xin=2.15,xout=2.95

1045 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.1749999999999996,delta_out=4.0,xin=2.15,xout=3.0

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1065 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.40000000000000036,delta_out=1.3,xin=2.2,xout=2.4

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1075 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.40000000000000036,delta_out=1.7499999999999993,xin=2.2,xout=2.5

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1085 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.40000000000000036,delta_out=2.2000000000000006,xin=2.2,xout=2.6

1090 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.40000000000000036,delta_out=2.424999999999998,xin=2.2,xout=2.65

1095 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.40000000000000036,delta_out=2.65,xin=2.2,xout=2.7

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1110 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.40000000000000036,delta_out=3.324999999999999,xin=2.2,xout=2.85

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1450 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.5249999999999997,delta_out=4.0,xin=2.45,xout=3.0

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1460 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.7499999999999993,delta_out=2.2000000000000006,xin=2.5,xout=2.6

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1505 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.974999999999999,delta_out=2.2000000000000006,xin=2.55,xout=2.6

1510 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.974999999999999,delta_out=2.424999999999998,xin=2.55,xout=2.65

1515 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.974999999999999,delta_out=2.65,xin=2.55,xout=2.7

1520 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.974999999999999,delta_out=2.8749999999999996,xin=2.55,xout=2.75

1525 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.974999999999999,delta_out=3.099999999999999,xin=2.55,xout=2.8

1530 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.974999999999999,delta_out=3.324999999999999,xin=2.55,xout=2.85

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1540 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.974999999999999,delta_out=3.7750000000000004,xin=2.55,xout=2.95

1545 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.974999999999999,delta_out=4.0,xin=2.55,xout=3.0

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1555 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.2000000000000006,delta_out=2.65,xin=2.6,xout=2.7

1560 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.2000000000000006,delta_out=2.8749999999999996,xin=2.6,xout=2.75

1565 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.2000000000000006,delta_out=3.099999999999999,xin=2.6,xout=2.8

1570 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.2000000000000006,delta_out=3.324999999999999,xin=2.6,xout=2.85

1575 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.2000000000000006,delta_out=3.5499999999999985,xin=2.6,xout=2.9

1580 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.2000000000000006,delta_out=3.7750000000000004,xin=2.6,xout=2.95

1585 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.2000000000000006,delta_out=4.0,xin=2.6,xout=3.0

1590 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.424999999999998,delta_out=2.65,xin=2.65,xout=2.7

1595 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.424999999999998,delta_out=2.8749999999999996,xin=2.65,xout=2.75

1600 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.424999999999998,delta_out=3.099999999999999,xin=2.65,xout=2.8

1605 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.424999999999998,delta_out=3.324999999999999,xin=2.65,xout=2.85

1610 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.424999999999998,delta_out=3.5499999999999985,xin=2.65,xout=2.9

1615 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.424999999999998,delta_out=3.7750000000000004,xin=2.65,xout=2.95

1620 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.424999999999998,delta_out=4.0,xin=2.65,xout=3.0

1625 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.65,delta_out=2.8749999999999996,xin=2.7,xout=2.75

1630 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.65,delta_out=3.099999999999999,xin=2.7,xout=2.8

1635 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.65,delta_out=3.324999999999999,xin=2.7,xout=2.85

1640 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.65,delta_out=3.5499999999999985,xin=2.7,xout=2.9

1645 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.65,delta_out=3.7750000000000004,xin=2.7,xout=2.95

1650 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.65,delta_out=4.0,xin=2.7,xout=3.0

1655 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.8749999999999996,delta_out=3.099999999999999,xin=2.75,xout=2.8

1660 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.8749999999999996,delta_out=3.324999999999999,xin=2.75,xout=2.85

1665 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.8749999999999996,delta_out=3.5499999999999985,xin=2.75,xout=2.9

1670 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.8749999999999996,delta_out=3.7750000000000004,xin=2.75,xout=2.95

1675 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.8749999999999996,delta_out=4.0,xin=2.75,xout=3.0

1680 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.099999999999999,delta_out=3.324999999999999,xin=2.8,xout=2.85

1685 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.099999999999999,delta_out=3.5499999999999985,xin=2.8,xout=2.9

1690 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.099999999999999,delta_out=3.7750000000000004,xin=2.8,xout=2.95

1695 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.099999999999999,delta_out=4.0,xin=2.8,xout=3.0

1700 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.324999999999999,delta_out=3.5499999999999985,xin=2.85,xout=2.9

1705 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.324999999999999,delta_out=3.7750000000000004,xin=2.85,xout=2.95

1710 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.324999999999999,delta_out=4.0,xin=2.85,xout=3.0

1715 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.5499999999999985,delta_out=3.7750000000000004,xin=2.9,xout=2.95

1720 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.5499999999999985,delta_out=4.0,xin=2.9,xout=3.0

1725 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.7750000000000004,delta_out=4.0,xin=2.95,xout=3.0

1730 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.033333333333334096,delta_out=0.6666666666666672,xin=2.7,xout=2.75

1735 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.033333333333334096,delta_out=0.7333333333333332,xin=2.7,xout=2.8

1740 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.033333333333334096,delta_out=0.8000000000000006,xin=2.7,xout=2.85

1745 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.033333333333334096,delta_out=0.8666666666666666,xin=2.7,xout=2.9

1750 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.033333333333334096,delta_out=0.933333333333334,xin=2.7,xout=2.95

1755 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.033333333333334096,delta_out=1.0000000000000007,xin=2.7,xout=3.0

1760 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.08333333333333376,delta_out=0.7333333333333332,xin=2.75,xout=2.8

1765 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.08333333333333376,delta_out=0.8000000000000006,xin=2.75,xout=2.85

1770 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.08333333333333376,delta_out=0.8666666666666666,xin=2.75,xout=2.9

1775 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.08333333333333376,delta_out=0.933333333333334,xin=2.75,xout=2.95

1780 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.08333333333333376,delta_out=1.0000000000000007,xin=2.75,xout=3.0

1785 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.13333333333333344,delta_out=0.8000000000000006,xin=2.8,xout=2.85

1790 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.13333333333333344,delta_out=0.8666666666666666,xin=2.8,xout=2.9

1795 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.13333333333333344,delta_out=0.933333333333334,xin=2.8,xout=2.95

1800 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.13333333333333344,delta_out=1.0000000000000007,xin=2.8,xout=3.0

1805 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.18333333333333385,delta_out=0.8666666666666666,xin=2.85,xout=2.9

1810 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.18333333333333385,delta_out=0.933333333333334,xin=2.85,xout=2.95

1815 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.18333333333333385,delta_out=1.0000000000000007,xin=2.85,xout=3.0

1820 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.2333333333333335,delta_out=0.933333333333334,xin=2.9,xout=2.95

1825 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.2333333333333335,delta_out=1.0000000000000007,xin=2.9,xout=3.0

1830 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.28333333333333394,delta_out=1.0000000000000007,xin=2.95,xout=3.0

1835 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.03000000000000025,delta_out=0.3999999999999999,xin=2.45,xout=2.5

1840 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.03000000000000025,delta_out=0.48,xin=2.45,xout=2.55

1845 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.03000000000000025,delta_out=0.56,xin=2.45,xout=2.6

1850 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.03000000000000025,delta_out=0.6400000000000001,xin=2.45,xout=2.65

1855 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.03000000000000025,delta_out=0.7200000000000002,xin=2.45,xout=2.7

1860 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.03000000000000025,delta_out=0.8000000000000003,xin=2.45,xout=2.75

1865 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.03000000000000025,delta_out=0.8799999999999994,xin=2.45,xout=2.8

1870 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.03000000000000025,delta_out=0.9600000000000004,xin=2.45,xout=2.85

1875 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.03000000000000025,delta_out=1.0399999999999996,xin=2.45,xout=2.9

1880 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.03000000000000025,delta_out=1.1200000000000006,xin=2.45,xout=2.95

1885 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.03000000000000025,delta_out=1.2000000000000006,xin=2.45,xout=3.0

1890 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.10000000000000009,delta_out=0.48,xin=2.5,xout=2.55

1895 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.10000000000000009,delta_out=0.56,xin=2.5,xout=2.6

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1905 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.10000000000000009,delta_out=0.7200000000000002,xin=2.5,xout=2.7

1910 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.10000000000000009,delta_out=0.8000000000000003,xin=2.5,xout=2.75

1915 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.10000000000000009,delta_out=0.8799999999999994,xin=2.5,xout=2.8

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1925 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.10000000000000009,delta_out=1.0399999999999996,xin=2.5,xout=2.9

1930 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.10000000000000009,delta_out=1.1200000000000006,xin=2.5,xout=2.95

1935 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.10000000000000009,delta_out=1.2000000000000006,xin=2.5,xout=3.0

1940 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.16999999999999948,delta_out=0.56,xin=2.55,xout=2.6

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1955 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.16999999999999948,delta_out=0.8000000000000003,xin=2.55,xout=2.75

1960 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.16999999999999948,delta_out=0.8799999999999994,xin=2.55,xout=2.8

1965 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.16999999999999948,delta_out=0.9600000000000004,xin=2.55,xout=2.85

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1995 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.23999999999999977,delta_out=0.8000000000000003,xin=2.6,xout=2.75

2000 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.23999999999999977,delta_out=0.8799999999999994,xin=2.6,xout=2.8

2005 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.23999999999999977,delta_out=0.9600000000000004,xin=2.6,xout=2.85

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2015 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.23999999999999977,delta_out=1.1200000000000006,xin=2.6,xout=2.95

2020 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.23999999999999977,delta_out=1.2000000000000006,xin=2.6,xout=3.0

2025 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.3099999999999996,delta_out=0.7200000000000002,xin=2.65,xout=2.7

2030 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.3099999999999996,delta_out=0.8000000000000003,xin=2.65,xout=2.75

2035 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.3099999999999996,delta_out=0.8799999999999994,xin=2.65,xout=2.8

2040 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.3099999999999996,delta_out=0.9600000000000004,xin=2.65,xout=2.85

2045 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.3099999999999996,delta_out=1.0399999999999996,xin=2.65,xout=2.9

2050 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.3099999999999996,delta_out=1.1200000000000006,xin=2.65,xout=2.95

2055 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.3099999999999996,delta_out=1.2000000000000006,xin=2.65,xout=3.0

2060 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.3799999999999999,delta_out=0.8000000000000003,xin=2.7,xout=2.75

2065 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.3799999999999999,delta_out=0.8799999999999994,xin=2.7,xout=2.8

2070 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.3799999999999999,delta_out=0.9600000000000004,xin=2.7,xout=2.85

2075 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.3799999999999999,delta_out=1.0399999999999996,xin=2.7,xout=2.9

2080 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.3799999999999999,delta_out=1.1200000000000006,xin=2.7,xout=2.95

2085 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.3799999999999999,delta_out=1.2000000000000006,xin=2.7,xout=3.0

2090 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.44999999999999973,delta_out=0.8799999999999994,xin=2.75,xout=2.8

2095 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.44999999999999973,delta_out=0.9600000000000004,xin=2.75,xout=2.85

2100 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.44999999999999973,delta_out=1.0399999999999996,xin=2.75,xout=2.9

2105 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.44999999999999973,delta_out=1.1200000000000006,xin=2.75,xout=2.95

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2130 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.5199999999999996,delta_out=1.2000000000000006,xin=2.8,xout=3.0

2135 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.5899999999999999,delta_out=1.0399999999999996,xin=2.85,xout=2.9

2140 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.5899999999999999,delta_out=1.1200000000000006,xin=2.85,xout=2.95

2145 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.5899999999999999,delta_out=1.2000000000000006,xin=2.85,xout=3.0

2150 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.6599999999999997,delta_out=1.1200000000000006,xin=2.9,xout=2.95

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2160 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.73,delta_out=1.2000000000000006,xin=2.95,xout=3.0

2165 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.0,delta_out=0.09999999999999953,xin=2.25,xout=2.3

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2180 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.0,delta_out=0.4000000000000009,xin=2.25,xout=2.45

2185 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.0,delta_out=0.4999999999999999,xin=2.25,xout=2.5

2190 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.0,delta_out=0.6,xin=2.25,xout=2.55

2195 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.0,delta_out=0.7000000000000001,xin=2.25,xout=2.6

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2210 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.0,delta_out=1.0000000000000002,xin=2.25,xout=2.75

2215 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.0,delta_out=1.0999999999999992,xin=2.25,xout=2.8

2220 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.0,delta_out=1.2000000000000004,xin=2.25,xout=2.85

2225 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.0,delta_out=1.2999999999999994,xin=2.25,xout=2.9

2230 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.0,delta_out=1.4000000000000006,xin=2.25,xout=2.95

2235 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.0,delta_out=1.5000000000000007,xin=2.25,xout=3.0

2240 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.10000000000000009,delta_out=0.20000000000000073,xin=2.3,xout=2.35

2245 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.10000000000000009,delta_out=0.2999999999999997,xin=2.3,xout=2.4

2250 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.10000000000000009,delta_out=0.4000000000000009,xin=2.3,xout=2.45

2255 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.10000000000000009,delta_out=0.4999999999999999,xin=2.3,xout=2.5

2260 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.10000000000000009,delta_out=0.6,xin=2.3,xout=2.55

2265 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.10000000000000009,delta_out=0.7000000000000001,xin=2.3,xout=2.6

2270 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.10000000000000009,delta_out=0.8000000000000002,xin=2.3,xout=2.65

2275 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.10000000000000009,delta_out=0.9000000000000002,xin=2.3,xout=2.7

2280 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.10000000000000009,delta_out=1.0000000000000002,xin=2.3,xout=2.75

2285 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.10000000000000009,delta_out=1.0999999999999992,xin=2.3,xout=2.8

2290 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.10000000000000009,delta_out=1.2000000000000004,xin=2.3,xout=2.85

2295 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.10000000000000009,delta_out=1.2999999999999994,xin=2.3,xout=2.9

2300 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.10000000000000009,delta_out=1.4000000000000006,xin=2.3,xout=2.95

2305 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.10000000000000009,delta_out=1.5000000000000007,xin=2.3,xout=3.0

2310 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.20000000000000018,delta_out=0.2999999999999997,xin=2.35,xout=2.4

2315 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.20000000000000018,delta_out=0.4000000000000009,xin=2.35,xout=2.45

2320 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.20000000000000018,delta_out=0.4999999999999999,xin=2.35,xout=2.5

2325 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.20000000000000018,delta_out=0.6,xin=2.35,xout=2.55

2330 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.20000000000000018,delta_out=0.7000000000000001,xin=2.35,xout=2.6

2335 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.20000000000000018,delta_out=0.8000000000000002,xin=2.35,xout=2.65

2340 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.20000000000000018,delta_out=0.9000000000000002,xin=2.35,xout=2.7

2345 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.20000000000000018,delta_out=1.0000000000000002,xin=2.35,xout=2.75

2350 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.20000000000000018,delta_out=1.0999999999999992,xin=2.35,xout=2.8

2355 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.20000000000000018,delta_out=1.2000000000000004,xin=2.35,xout=2.85

2360 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.20000000000000018,delta_out=1.2999999999999994,xin=2.35,xout=2.9

2365 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.20000000000000018,delta_out=1.4000000000000006,xin=2.35,xout=2.95

2370 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.20000000000000018,delta_out=1.5000000000000007,xin=2.35,xout=3.0

2375 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.30000000000000027,delta_out=0.4000000000000009,xin=2.4,xout=2.45

2380 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.30000000000000027,delta_out=0.4999999999999999,xin=2.4,xout=2.5

2385 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.30000000000000027,delta_out=0.6,xin=2.4,xout=2.55

2390 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.30000000000000027,delta_out=0.7000000000000001,xin=2.4,xout=2.6

2395 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.30000000000000027,delta_out=0.8000000000000002,xin=2.4,xout=2.65

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2405 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.30000000000000027,delta_out=1.0000000000000002,xin=2.4,xout=2.75

2410 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.30000000000000027,delta_out=1.0999999999999992,xin=2.4,xout=2.8

2415 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.30000000000000027,delta_out=1.2000000000000004,xin=2.4,xout=2.85

2420 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.30000000000000027,delta_out=1.2999999999999994,xin=2.4,xout=2.9

2425 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.30000000000000027,delta_out=1.4000000000000006,xin=2.4,xout=2.95

2430 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.30000000000000027,delta_out=1.5000000000000007,xin=2.4,xout=3.0

2435 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.40000000000000036,delta_out=0.4999999999999999,xin=2.45,xout=2.5

2440 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.40000000000000036,delta_out=0.6,xin=2.45,xout=2.55

2445 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.40000000000000036,delta_out=0.7000000000000001,xin=2.45,xout=2.6

2450 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.40000000000000036,delta_out=0.8000000000000002,xin=2.45,xout=2.65

2455 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.40000000000000036,delta_out=0.9000000000000002,xin=2.45,xout=2.7

2460 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.40000000000000036,delta_out=1.0000000000000002,xin=2.45,xout=2.75

2465 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.40000000000000036,delta_out=1.0999999999999992,xin=2.45,xout=2.8

2470 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.40000000000000036,delta_out=1.2000000000000004,xin=2.45,xout=2.85

2475 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.40000000000000036,delta_out=1.2999999999999994,xin=2.45,xout=2.9

2480 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.40000000000000036,delta_out=1.4000000000000006,xin=2.45,xout=2.95

2485 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.40000000000000036,delta_out=1.5000000000000007,xin=2.45,xout=3.0

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2505 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.5000000000000004,delta_out=0.9000000000000002,xin=2.5,xout=2.7

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2535 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.5000000000000004,delta_out=1.5000000000000007,xin=2.5,xout=3.0

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2615 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.7000000000000006,delta_out=1.4000000000000006,xin=2.6,xout=2.95

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2635 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.8000000000000007,delta_out=1.0999999999999992,xin=2.65,xout=2.8

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2650 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.8000000000000007,delta_out=1.4000000000000006,xin=2.65,xout=2.95

2655 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.8000000000000007,delta_out=1.5000000000000007,xin=2.65,xout=3.0

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2665 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.9000000000000008,delta_out=1.0999999999999992,xin=2.7,xout=2.8

2670 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.9000000000000008,delta_out=1.2000000000000004,xin=2.7,xout=2.85

2675 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.9000000000000008,delta_out=1.2999999999999994,xin=2.7,xout=2.9

2680 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.9000000000000008,delta_out=1.4000000000000006,xin=2.7,xout=2.95

2685 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.9000000000000008,delta_out=1.5000000000000007,xin=2.7,xout=3.0

2690 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.9999999999999998,delta_out=1.0999999999999992,xin=2.75,xout=2.8

2695 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.9999999999999998,delta_out=1.2000000000000004,xin=2.75,xout=2.85

2700 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.9999999999999998,delta_out=1.2999999999999994,xin=2.75,xout=2.9

2705 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.9999999999999998,delta_out=1.4000000000000006,xin=2.75,xout=2.95

2710 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.9999999999999998,delta_out=1.5000000000000007,xin=2.75,xout=3.0

2715 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.0999999999999988,delta_out=1.2000000000000004,xin=2.8,xout=2.85

2720 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.0999999999999988,delta_out=1.2999999999999994,xin=2.8,xout=2.9

2725 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.0999999999999988,delta_out=1.4000000000000006,xin=2.8,xout=2.95

2730 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.0999999999999988,delta_out=1.5000000000000007,xin=2.8,xout=3.0

2735 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.2,delta_out=1.2999999999999994,xin=2.85,xout=2.9

2740 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.2,delta_out=1.4000000000000006,xin=2.85,xout=2.95

2745 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.2,delta_out=1.5000000000000007,xin=2.85,xout=3.0

2750 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.299999999999999,delta_out=1.4000000000000006,xin=2.9,xout=2.95

2755 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.299999999999999,delta_out=1.5000000000000007,xin=2.9,xout=3.0

2760 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.4000000000000001,delta_out=1.5000000000000007,xin=2.95,xout=3.0

2765 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.0285714285714286,delta_out=0.32142857142857095,xin=2.7,xout=2.75

2770 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.0285714285714286,delta_out=0.37142857142857116,xin=2.7,xout=2.8

2775 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.0285714285714286,delta_out=0.4214285714285714,xin=2.7,xout=2.85

2780 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.0285714285714286,delta_out=0.4714285714285709,xin=2.7,xout=2.9

2785 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.0285714285714286,delta_out=0.5214285714285711,xin=2.7,xout=2.95

2790 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.0285714285714286,delta_out=0.5714285714285707,xin=2.7,xout=3.0

2795 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.07142857142857117,delta_out=0.37142857142857116,xin=2.75,xout=2.8

2800 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.07142857142857117,delta_out=0.4214285714285714,xin=2.75,xout=2.85

2805 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.07142857142857117,delta_out=0.4714285714285709,xin=2.75,xout=2.9

2810 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.07142857142857117,delta_out=0.5214285714285711,xin=2.75,xout=2.95

2815 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.07142857142857117,delta_out=0.5714285714285707,xin=2.75,xout=3.0

2820 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.11428571428571407,delta_out=0.4214285714285714,xin=2.8,xout=2.85

2825 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.11428571428571407,delta_out=0.4714285714285709,xin=2.8,xout=2.9

2830 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.11428571428571407,delta_out=0.5214285714285711,xin=2.8,xout=2.95

2835 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.11428571428571407,delta_out=0.5714285714285707,xin=2.8,xout=3.0

2840 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.15714285714285697,delta_out=0.4714285714285709,xin=2.85,xout=2.9

2845 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.15714285714285697,delta_out=0.5214285714285711,xin=2.85,xout=2.95

2850 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.15714285714285697,delta_out=0.5714285714285707,xin=2.85,xout=3.0

2855 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.19999999999999987,delta_out=0.5214285714285711,xin=2.9,xout=2.95

2860 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.19999999999999987,delta_out=0.5714285714285707,xin=2.9,xout=3.0

2865 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.24285714285714277,delta_out=0.5714285714285707,xin=2.95,xout=3.0

2870 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.02500000000000021,delta_out=0.08333333333333341,xin=2.45,xout=2.5

2875 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.02500000000000021,delta_out=0.14166666666666625,xin=2.45,xout=2.55

2880 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.02500000000000021,delta_out=0.19999999999999982,xin=2.45,xout=2.6

2885 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.02500000000000021,delta_out=0.25833333333333264,xin=2.45,xout=2.65

2890 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.02500000000000021,delta_out=0.3166666666666662,xin=2.45,xout=2.7

2895 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.02500000000000021,delta_out=0.3749999999999998,xin=2.45,xout=2.75

2900 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.02500000000000021,delta_out=0.4333333333333326,xin=2.45,xout=2.8

2905 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.02500000000000021,delta_out=0.4916666666666662,xin=2.45,xout=2.85

2910 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.02500000000000021,delta_out=0.5499999999999998,xin=2.45,xout=2.9

2915 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.02500000000000021,delta_out=0.6083333333333334,xin=2.45,xout=2.95

2920 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.02500000000000021,delta_out=0.6666666666666662,xin=2.45,xout=3.0

2925 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.08333333333333304,delta_out=0.14166666666666625,xin=2.5,xout=2.55

2930 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.08333333333333304,delta_out=0.19999999999999982,xin=2.5,xout=2.6

2935 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.08333333333333304,delta_out=0.25833333333333264,xin=2.5,xout=2.65

2940 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.08333333333333304,delta_out=0.3166666666666662,xin=2.5,xout=2.7

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2950 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.08333333333333304,delta_out=0.4333333333333326,xin=2.5,xout=2.8

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2960 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.08333333333333304,delta_out=0.5499999999999998,xin=2.5,xout=2.9

2965 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.08333333333333304,delta_out=0.6083333333333334,xin=2.5,xout=2.95

2970 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.08333333333333304,delta_out=0.6666666666666662,xin=2.5,xout=3.0

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2980 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.14166666666666589,delta_out=0.25833333333333264,xin=2.55,xout=2.65

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2995 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.14166666666666589,delta_out=0.4333333333333326,xin=2.55,xout=2.8

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3025 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.19999999999999946,delta_out=0.3166666666666662,xin=2.6,xout=2.7

3030 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.19999999999999946,delta_out=0.3749999999999998,xin=2.6,xout=2.75

3035 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.19999999999999946,delta_out=0.4333333333333326,xin=2.6,xout=2.8

3040 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.19999999999999946,delta_out=0.4916666666666662,xin=2.6,xout=2.85

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3050 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.19999999999999946,delta_out=0.6083333333333334,xin=2.6,xout=2.95

3055 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.19999999999999946,delta_out=0.6666666666666662,xin=2.6,xout=3.0

3060 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.258333333333333,delta_out=0.3166666666666662,xin=2.65,xout=2.7

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3075 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.258333333333333,delta_out=0.4916666666666662,xin=2.65,xout=2.85

3080 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.258333333333333,delta_out=0.5499999999999998,xin=2.65,xout=2.9

3085 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.258333333333333,delta_out=0.6083333333333334,xin=2.65,xout=2.95

3090 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.258333333333333,delta_out=0.6666666666666662,xin=2.65,xout=3.0

3095 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.3166666666666666,delta_out=0.3749999999999998,xin=2.7,xout=2.75

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3205 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.0,delta_out=0.10000000000000009,xin=2.25,xout=2.5

3210 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.0,delta_out=0.16999999999999948,xin=2.25,xout=2.55

3215 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.0,delta_out=0.23999999999999977,xin=2.25,xout=2.6

3220 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.0,delta_out=0.3099999999999996,xin=2.25,xout=2.65

3225 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.0,delta_out=0.3799999999999999,xin=2.25,xout=2.7

3230 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.0,delta_out=0.44999999999999973,xin=2.25,xout=2.75

3235 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.0,delta_out=0.5199999999999996,xin=2.25,xout=2.8

3240 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.0,delta_out=0.5899999999999999,xin=2.25,xout=2.85

3245 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.0,delta_out=0.6599999999999997,xin=2.25,xout=2.9

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3255 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.0,delta_out=0.7999999999999994,xin=2.25,xout=3.0

3260 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.07999999999999963,delta_out=0.03000000000000025,xin=2.3,xout=2.45

3265 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.07999999999999963,delta_out=0.10000000000000009,xin=2.3,xout=2.5

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3275 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.07999999999999963,delta_out=0.23999999999999977,xin=2.3,xout=2.6

3280 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.07999999999999963,delta_out=0.3099999999999996,xin=2.3,xout=2.65

3285 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.07999999999999963,delta_out=0.3799999999999999,xin=2.3,xout=2.7

3290 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.07999999999999963,delta_out=0.44999999999999973,xin=2.3,xout=2.75

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3310 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.07999999999999963,delta_out=0.73,xin=2.3,xout=2.95

3315 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.07999999999999963,delta_out=0.7999999999999994,xin=2.3,xout=3.0

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3325 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.16000000000000014,delta_out=0.10000000000000009,xin=2.35,xout=2.5

3330 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.16000000000000014,delta_out=0.16999999999999948,xin=2.35,xout=2.55

3335 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.16000000000000014,delta_out=0.23999999999999977,xin=2.35,xout=2.6

3340 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.16000000000000014,delta_out=0.3099999999999996,xin=2.35,xout=2.65

3345 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.16000000000000014,delta_out=0.3799999999999999,xin=2.35,xout=2.7

3350 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.16000000000000014,delta_out=0.44999999999999973,xin=2.35,xout=2.75

3355 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.16000000000000014,delta_out=0.5199999999999996,xin=2.35,xout=2.8

3360 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.16000000000000014,delta_out=0.5899999999999999,xin=2.35,xout=2.85

3365 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.16000000000000014,delta_out=0.6599999999999997,xin=2.35,xout=2.9

3370 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.16000000000000014,delta_out=0.73,xin=2.35,xout=2.95

3375 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.16000000000000014,delta_out=0.7999999999999994,xin=2.35,xout=3.0

3380 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.23999999999999977,delta_out=0.03000000000000025,xin=2.4,xout=2.45

3385 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.23999999999999977,delta_out=0.10000000000000009,xin=2.4,xout=2.5

3390 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.23999999999999977,delta_out=0.16999999999999948,xin=2.4,xout=2.55

3395 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.23999999999999977,delta_out=0.23999999999999977,xin=2.4,xout=2.6

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3405 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.23999999999999977,delta_out=0.3799999999999999,xin=2.4,xout=2.7

3410 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.23999999999999977,delta_out=0.44999999999999973,xin=2.4,xout=2.75

3415 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.23999999999999977,delta_out=0.5199999999999996,xin=2.4,xout=2.8

3420 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.23999999999999977,delta_out=0.5899999999999999,xin=2.4,xout=2.85

3425 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.23999999999999977,delta_out=0.6599999999999997,xin=2.4,xout=2.9

3430 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.23999999999999977,delta_out=0.73,xin=2.4,xout=2.95

3435 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.23999999999999977,delta_out=0.7999999999999994,xin=2.4,xout=3.0

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3445 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.3200000000000003,delta_out=0.16999999999999948,xin=2.45,xout=2.55

3450 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.3200000000000003,delta_out=0.23999999999999977,xin=2.45,xout=2.6

3455 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.3200000000000003,delta_out=0.3099999999999996,xin=2.45,xout=2.65

3460 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.3200000000000003,delta_out=0.3799999999999999,xin=2.45,xout=2.7

3465 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.3200000000000003,delta_out=0.44999999999999973,xin=2.45,xout=2.75

3470 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.3200000000000003,delta_out=0.5199999999999996,xin=2.45,xout=2.8

3475 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.3200000000000003,delta_out=0.5899999999999999,xin=2.45,xout=2.85

3480 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.3200000000000003,delta_out=0.6599999999999997,xin=2.45,xout=2.9

3485 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.3200000000000003,delta_out=0.73,xin=2.45,xout=2.95

3490 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.3200000000000003,delta_out=0.7999999999999994,xin=2.45,xout=3.0

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3510 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.3999999999999999,delta_out=0.3799999999999999,xin=2.5,xout=2.7

3515 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.3999999999999999,delta_out=0.44999999999999973,xin=2.5,xout=2.75

3520 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.3999999999999999,delta_out=0.5199999999999996,xin=2.5,xout=2.8

3525 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.3999999999999999,delta_out=0.5899999999999999,xin=2.5,xout=2.85

3530 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.3999999999999999,delta_out=0.6599999999999997,xin=2.5,xout=2.9

3535 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.3999999999999999,delta_out=0.73,xin=2.5,xout=2.95

3540 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.3999999999999999,delta_out=0.7999999999999994,xin=2.5,xout=3.0

3545 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.48,delta_out=0.23999999999999977,xin=2.55,xout=2.6

3550 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.48,delta_out=0.3099999999999996,xin=2.55,xout=2.65

3555 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.48,delta_out=0.3799999999999999,xin=2.55,xout=2.7

3560 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.48,delta_out=0.44999999999999973,xin=2.55,xout=2.75

3565 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.48,delta_out=0.5199999999999996,xin=2.55,xout=2.8

3570 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.48,delta_out=0.5899999999999999,xin=2.55,xout=2.85

3575 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.48,delta_out=0.6599999999999997,xin=2.55,xout=2.9

3580 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.48,delta_out=0.73,xin=2.55,xout=2.95

3585 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.48,delta_out=0.7999999999999994,xin=2.55,xout=3.0

3590 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.56,delta_out=0.3099999999999996,xin=2.6,xout=2.65

3595 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.56,delta_out=0.3799999999999999,xin=2.6,xout=2.7

3600 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.56,delta_out=0.44999999999999973,xin=2.6,xout=2.75

3605 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.56,delta_out=0.5199999999999996,xin=2.6,xout=2.8

3610 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.56,delta_out=0.5899999999999999,xin=2.6,xout=2.85

3615 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.56,delta_out=0.6599999999999997,xin=2.6,xout=2.9

3620 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.56,delta_out=0.73,xin=2.6,xout=2.95

3625 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.56,delta_out=0.7999999999999994,xin=2.6,xout=3.0

3630 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.6400000000000001,delta_out=0.3799999999999999,xin=2.65,xout=2.7

3635 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.6400000000000001,delta_out=0.44999999999999973,xin=2.65,xout=2.75

3640 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.6400000000000001,delta_out=0.5199999999999996,xin=2.65,xout=2.8

3645 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.6400000000000001,delta_out=0.5899999999999999,xin=2.65,xout=2.85

3650 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.6400000000000001,delta_out=0.6599999999999997,xin=2.65,xout=2.9

3655 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.6400000000000001,delta_out=0.73,xin=2.65,xout=2.95

3660 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.6400000000000001,delta_out=0.7999999999999994,xin=2.65,xout=3.0

3665 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.7200000000000002,delta_out=0.44999999999999973,xin=2.7,xout=2.75

3670 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.7200000000000002,delta_out=0.5199999999999996,xin=2.7,xout=2.8

3675 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.7200000000000002,delta_out=0.5899999999999999,xin=2.7,xout=2.85

3680 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.7200000000000002,delta_out=0.6599999999999997,xin=2.7,xout=2.9

3685 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.7200000000000002,delta_out=0.73,xin=2.7,xout=2.95

3690 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.7200000000000002,delta_out=0.7999999999999994,xin=2.7,xout=3.0

3695 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.8000000000000003,delta_out=0.5199999999999996,xin=2.75,xout=2.8

3700 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.8000000000000003,delta_out=0.5899999999999999,xin=2.75,xout=2.85

3705 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.8000000000000003,delta_out=0.6599999999999997,xin=2.75,xout=2.9

3710 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.8000000000000003,delta_out=0.73,xin=2.75,xout=2.95

3715 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.8000000000000003,delta_out=0.7999999999999994,xin=2.75,xout=3.0

3720 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.8799999999999994,delta_out=0.5899999999999999,xin=2.8,xout=2.85

3725 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.8799999999999994,delta_out=0.6599999999999997,xin=2.8,xout=2.9

3730 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.8799999999999994,delta_out=0.73,xin=2.8,xout=2.95

3735 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.8799999999999994,delta_out=0.7999999999999994,xin=2.8,xout=3.0

3740 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.9600000000000004,delta_out=0.6599999999999997,xin=2.85,xout=2.9

3745 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.9600000000000004,delta_out=0.73,xin=2.85,xout=2.95

3750 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.9600000000000004,delta_out=0.7999999999999994,xin=2.85,xout=3.0

3755 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=1.04,delta_out=0.73,xin=2.9,xout=2.95

3760 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=1.04,delta_out=0.7999999999999994,xin=2.9,xout=3.0

3765 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=1.120000000000001,delta_out=0.7999999999999994,xin=2.95,xout=3.0

3770 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.0250000000000003,delta_out=0.06250000000000033,xin=2.7,xout=2.75

3775 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.0250000000000003,delta_out=0.10000000000000009,xin=2.7,xout=2.8

3780 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.0250000000000003,delta_out=0.1375000000000004,xin=2.7,xout=2.85

3785 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.0250000000000003,delta_out=0.17500000000000016,xin=2.7,xout=2.9

3790 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.0250000000000003,delta_out=0.21250000000000047,xin=2.7,xout=2.95

3795 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.0250000000000003,delta_out=0.2500000000000002,xin=2.7,xout=3.0

3800 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.06250000000000061,delta_out=0.10000000000000009,xin=2.75,xout=2.8

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3810 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.06250000000000061,delta_out=0.17500000000000016,xin=2.75,xout=2.9

3815 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.06250000000000061,delta_out=0.21250000000000047,xin=2.75,xout=2.95

3820 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.06250000000000061,delta_out=0.2500000000000002,xin=2.75,xout=3.0

3825 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.10000000000000037,delta_out=0.1375000000000004,xin=2.8,xout=2.85

3830 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.10000000000000037,delta_out=0.17500000000000016,xin=2.8,xout=2.9

3835 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.10000000000000037,delta_out=0.21250000000000047,xin=2.8,xout=2.95

3840 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.10000000000000037,delta_out=0.2500000000000002,xin=2.8,xout=3.0

3845 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.13750000000000068,delta_out=0.17500000000000016,xin=2.85,xout=2.9

3850 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.13750000000000068,delta_out=0.21250000000000047,xin=2.85,xout=2.95

3855 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.13750000000000068,delta_out=0.2500000000000002,xin=2.85,xout=3.0

3860 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.17500000000000043,delta_out=0.21250000000000047,xin=2.9,xout=2.95

3865 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.17500000000000043,delta_out=0.2500000000000002,xin=2.9,xout=3.0

3870 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.21250000000000074,delta_out=0.2500000000000002,xin=2.95,xout=3.0

3875 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.02142857142857129,delta_out=0.0285714285714286,xin=2.45,xout=2.7

3880 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.02142857142857129,delta_out=0.07142857142857117,xin=2.45,xout=2.75

3885 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.02142857142857129,delta_out=0.11428571428571407,xin=2.45,xout=2.8

3890 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.02142857142857129,delta_out=0.15714285714285697,xin=2.45,xout=2.85

3895 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.02142857142857129,delta_out=0.19999999999999987,xin=2.45,xout=2.9

3900 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.02142857142857129,delta_out=0.24285714285714277,xin=2.45,xout=2.95

3905 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.02142857142857129,delta_out=0.28571428571428537,xin=2.45,xout=3.0

3910 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.0714285714285715,delta_out=0.0285714285714286,xin=2.5,xout=2.7

3915 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.0714285714285715,delta_out=0.07142857142857117,xin=2.5,xout=2.75

3920 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.0714285714285715,delta_out=0.11428571428571407,xin=2.5,xout=2.8

3925 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.0714285714285715,delta_out=0.15714285714285697,xin=2.5,xout=2.85

3930 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.0714285714285715,delta_out=0.19999999999999987,xin=2.5,xout=2.9

3935 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.0714285714285715,delta_out=0.24285714285714277,xin=2.5,xout=2.95

3940 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.0714285714285715,delta_out=0.28571428571428537,xin=2.5,xout=3.0

3945 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.12142857142857107,delta_out=0.0285714285714286,xin=2.55,xout=2.7

3950 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.12142857142857107,delta_out=0.07142857142857117,xin=2.55,xout=2.75

3955 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.12142857142857107,delta_out=0.11428571428571407,xin=2.55,xout=2.8

3960 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.12142857142857107,delta_out=0.15714285714285697,xin=2.55,xout=2.85

3965 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.12142857142857107,delta_out=0.19999999999999987,xin=2.55,xout=2.9

3970 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.12142857142857107,delta_out=0.24285714285714277,xin=2.55,xout=2.95

3975 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.12142857142857107,delta_out=0.28571428571428537,xin=2.55,xout=3.0

3980 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.17142857142857126,delta_out=0.0285714285714286,xin=2.6,xout=2.7

3985 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.17142857142857126,delta_out=0.07142857142857117,xin=2.6,xout=2.75

3990 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.17142857142857126,delta_out=0.11428571428571407,xin=2.6,xout=2.8

3995 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.17142857142857126,delta_out=0.15714285714285697,xin=2.6,xout=2.85

4000 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.17142857142857126,delta_out=0.19999999999999987,xin=2.6,xout=2.9

4005 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.17142857142857126,delta_out=0.24285714285714277,xin=2.6,xout=2.95

4010 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.17142857142857126,delta_out=0.28571428571428537,xin=2.6,xout=3.0

4015 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.22142857142857084,delta_out=0.0285714285714286,xin=2.65,xout=2.7

4020 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.22142857142857084,delta_out=0.07142857142857117,xin=2.65,xout=2.75

4025 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.22142857142857084,delta_out=0.11428571428571407,xin=2.65,xout=2.8

4030 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.22142857142857084,delta_out=0.15714285714285697,xin=2.65,xout=2.85

4035 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.22142857142857084,delta_out=0.19999999999999987,xin=2.65,xout=2.9

4040 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.22142857142857084,delta_out=0.24285714285714277,xin=2.65,xout=2.95

4045 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.22142857142857084,delta_out=0.28571428571428537,xin=2.65,xout=3.0

4050 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.2714285714285711,delta_out=0.07142857142857117,xin=2.7,xout=2.75

4055 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.2714285714285711,delta_out=0.11428571428571407,xin=2.7,xout=2.8

4060 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.2714285714285711,delta_out=0.15714285714285697,xin=2.7,xout=2.85

4065 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.2714285714285711,delta_out=0.19999999999999987,xin=2.7,xout=2.9

4070 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.2714285714285711,delta_out=0.24285714285714277,xin=2.7,xout=2.95

4075 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.2714285714285711,delta_out=0.28571428571428537,xin=2.7,xout=3.0

4080 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.3214285714285713,delta_out=0.11428571428571407,xin=2.75,xout=2.8

4085 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.3214285714285713,delta_out=0.15714285714285697,xin=2.75,xout=2.85

4090 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.3214285714285713,delta_out=0.19999999999999987,xin=2.75,xout=2.9

4095 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.3214285714285713,delta_out=0.24285714285714277,xin=2.75,xout=2.95

4100 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.3214285714285713,delta_out=0.28571428571428537,xin=2.75,xout=3.0

4105 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.37142857142857083,delta_out=0.15714285714285697,xin=2.8,xout=2.85

4110 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.37142857142857083,delta_out=0.19999999999999987,xin=2.8,xout=2.9

4115 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.37142857142857083,delta_out=0.24285714285714277,xin=2.8,xout=2.95

4120 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.37142857142857083,delta_out=0.28571428571428537,xin=2.8,xout=3.0

4125 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.42142857142857104,delta_out=0.19999999999999987,xin=2.85,xout=2.9

4130 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.42142857142857104,delta_out=0.24285714285714277,xin=2.85,xout=2.95

4135 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.42142857142857104,delta_out=0.28571428571428537,xin=2.85,xout=3.0

4140 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.47142857142857125,delta_out=0.24285714285714277,xin=2.9,xout=2.95

4145 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.47142857142857125,delta_out=0.28571428571428537,xin=2.9,xout=3.0

4150 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.5214285714285715,delta_out=0.28571428571428537,xin=2.95,xout=3.0

4155 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.06666666666666672,delta_out=0.03333333333333373,xin=2.3,xout=2.7

4160 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.06666666666666672,delta_out=0.08333333333333413,xin=2.3,xout=2.75

4165 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.06666666666666672,delta_out=0.1333333333333338,xin=2.3,xout=2.8

4170 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.06666666666666672,delta_out=0.1833333333333342,xin=2.3,xout=2.85

4175 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.06666666666666672,delta_out=0.23333333333333386,xin=2.3,xout=2.9

4180 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.06666666666666672,delta_out=0.28333333333333427,xin=2.3,xout=2.95

4185 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.06666666666666672,delta_out=0.3333333333333339,xin=2.3,xout=3.0

4190 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.13333333333333344,delta_out=0.03333333333333373,xin=2.35,xout=2.7

4195 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.13333333333333344,delta_out=0.08333333333333413,xin=2.35,xout=2.75

4200 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.13333333333333344,delta_out=0.1333333333333338,xin=2.35,xout=2.8

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4210 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.13333333333333344,delta_out=0.23333333333333386,xin=2.35,xout=2.9

4215 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.13333333333333344,delta_out=0.28333333333333427,xin=2.35,xout=2.95

4220 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.13333333333333344,delta_out=0.3333333333333339,xin=2.35,xout=3.0

4225 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.20000000000000015,delta_out=0.03333333333333373,xin=2.4,xout=2.7

4230 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.20000000000000015,delta_out=0.08333333333333413,xin=2.4,xout=2.75

4235 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.20000000000000015,delta_out=0.1333333333333338,xin=2.4,xout=2.8

4240 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.20000000000000015,delta_out=0.1833333333333342,xin=2.4,xout=2.85

4245 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.20000000000000015,delta_out=0.23333333333333386,xin=2.4,xout=2.9

4250 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.20000000000000015,delta_out=0.28333333333333427,xin=2.4,xout=2.95

4255 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.20000000000000015,delta_out=0.3333333333333339,xin=2.4,xout=3.0

4260 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.2666666666666669,delta_out=0.03333333333333373,xin=2.45,xout=2.7

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4280 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.2666666666666669,delta_out=0.23333333333333386,xin=2.45,xout=2.9

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4300 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.3333333333333336,delta_out=0.08333333333333413,xin=2.5,xout=2.75

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4310 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.3333333333333336,delta_out=0.1833333333333342,xin=2.5,xout=2.85

4315 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.3333333333333336,delta_out=0.23333333333333386,xin=2.5,xout=2.9

4320 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.3333333333333336,delta_out=0.28333333333333427,xin=2.5,xout=2.95

4325 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.3333333333333336,delta_out=0.3333333333333339,xin=2.5,xout=3.0

4330 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.4000000000000003,delta_out=0.03333333333333373,xin=2.55,xout=2.7

4335 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.4000000000000003,delta_out=0.08333333333333413,xin=2.55,xout=2.75

4340 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.4000000000000003,delta_out=0.1333333333333338,xin=2.55,xout=2.8

4345 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.4000000000000003,delta_out=0.1833333333333342,xin=2.55,xout=2.85

4350 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.4000000000000003,delta_out=0.23333333333333386,xin=2.55,xout=2.9

4355 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.4000000000000003,delta_out=0.28333333333333427,xin=2.55,xout=2.95

4360 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.4000000000000003,delta_out=0.3333333333333339,xin=2.55,xout=3.0

4365 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.466666666666667,delta_out=0.03333333333333373,xin=2.6,xout=2.7

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4380 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.466666666666667,delta_out=0.1833333333333342,xin=2.6,xout=2.85

4385 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.466666666666667,delta_out=0.23333333333333386,xin=2.6,xout=2.9

4390 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.466666666666667,delta_out=0.28333333333333427,xin=2.6,xout=2.95

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4410 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.5333333333333338,delta_out=0.1333333333333338,xin=2.65,xout=2.8

4415 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.5333333333333338,delta_out=0.1833333333333342,xin=2.65,xout=2.85

4420 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.5333333333333338,delta_out=0.23333333333333386,xin=2.65,xout=2.9

4425 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.5333333333333338,delta_out=0.28333333333333427,xin=2.65,xout=2.95

4430 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.5333333333333338,delta_out=0.3333333333333339,xin=2.65,xout=3.0

4435 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.6000000000000004,delta_out=0.08333333333333413,xin=2.7,xout=2.75

4440 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.6000000000000004,delta_out=0.1333333333333338,xin=2.7,xout=2.8

4445 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.6000000000000004,delta_out=0.1833333333333342,xin=2.7,xout=2.85

4450 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.6000000000000004,delta_out=0.23333333333333386,xin=2.7,xout=2.9

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4460 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.6000000000000004,delta_out=0.3333333333333339,xin=2.7,xout=3.0

4465 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.6666666666666672,delta_out=0.1333333333333338,xin=2.75,xout=2.8

4470 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.6666666666666672,delta_out=0.1833333333333342,xin=2.75,xout=2.85

4475 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.6666666666666672,delta_out=0.23333333333333386,xin=2.75,xout=2.9

4480 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.6666666666666672,delta_out=0.28333333333333427,xin=2.75,xout=2.95

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4515 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.8000000000000006,delta_out=0.28333333333333427,xin=2.85,xout=2.95

4520 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.8000000000000006,delta_out=0.3333333333333339,xin=2.85,xout=3.0

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4530 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.8666666666666666,delta_out=0.3333333333333339,xin=2.9,xout=3.0

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4540 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.07000000000000028,delta_out=0.040000000000000036,xin=2.15,xout=2.7

4545 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.07000000000000028,delta_out=0.09999999999999964,xin=2.15,xout=2.75

4550 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.07000000000000028,delta_out=0.1599999999999997,xin=2.15,xout=2.8

4555 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.07000000000000028,delta_out=0.21999999999999975,xin=2.15,xout=2.85

4560 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.07000000000000028,delta_out=0.2799999999999998,xin=2.15,xout=2.9

4565 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.07000000000000028,delta_out=0.33999999999999986,xin=2.15,xout=2.95

4570 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.07000000000000028,delta_out=0.39999999999999947,xin=2.15,xout=3.0

4575 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.16000000000000014,delta_out=0.040000000000000036,xin=2.2,xout=2.7

4580 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.16000000000000014,delta_out=0.09999999999999964,xin=2.2,xout=2.75

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4590 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.16000000000000014,delta_out=0.21999999999999975,xin=2.2,xout=2.85

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4600 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.16000000000000014,delta_out=0.33999999999999986,xin=2.2,xout=2.95

4605 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.16000000000000014,delta_out=0.39999999999999947,xin=2.2,xout=3.0

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4615 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.25,delta_out=0.09999999999999964,xin=2.25,xout=2.75

4620 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.25,delta_out=0.1599999999999997,xin=2.25,xout=2.8

4625 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.25,delta_out=0.21999999999999975,xin=2.25,xout=2.85

4630 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.25,delta_out=0.2799999999999998,xin=2.25,xout=2.9

4635 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.25,delta_out=0.33999999999999986,xin=2.25,xout=2.95

4640 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.25,delta_out=0.39999999999999947,xin=2.25,xout=3.0

4645 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.33999999999999986,delta_out=0.040000000000000036,xin=2.3,xout=2.7

4650 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.33999999999999986,delta_out=0.09999999999999964,xin=2.3,xout=2.75

4655 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.33999999999999986,delta_out=0.1599999999999997,xin=2.3,xout=2.8

4660 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.33999999999999986,delta_out=0.21999999999999975,xin=2.3,xout=2.85

4665 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.33999999999999986,delta_out=0.2799999999999998,xin=2.3,xout=2.9

4670 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.33999999999999986,delta_out=0.33999999999999986,xin=2.3,xout=2.95

4675 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.33999999999999986,delta_out=0.39999999999999947,xin=2.3,xout=3.0

4680 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.4300000000000006,delta_out=0.040000000000000036,xin=2.35,xout=2.7

4685 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.4300000000000006,delta_out=0.09999999999999964,xin=2.35,xout=2.75

4690 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.4300000000000006,delta_out=0.1599999999999997,xin=2.35,xout=2.8

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4705 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.4300000000000006,delta_out=0.33999999999999986,xin=2.35,xout=2.95

4710 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.4300000000000006,delta_out=0.39999999999999947,xin=2.35,xout=3.0

4715 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.5200000000000005,delta_out=0.040000000000000036,xin=2.4,xout=2.7

4720 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.5200000000000005,delta_out=0.09999999999999964,xin=2.4,xout=2.75

4725 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.5200000000000005,delta_out=0.1599999999999997,xin=2.4,xout=2.8

4730 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.5200000000000005,delta_out=0.21999999999999975,xin=2.4,xout=2.85

4735 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.5200000000000005,delta_out=0.2799999999999998,xin=2.4,xout=2.9

4740 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.5200000000000005,delta_out=0.33999999999999986,xin=2.4,xout=2.95

4745 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.5200000000000005,delta_out=0.39999999999999947,xin=2.4,xout=3.0

4750 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.6100000000000003,delta_out=0.040000000000000036,xin=2.45,xout=2.7

4755 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.6100000000000003,delta_out=0.09999999999999964,xin=2.45,xout=2.75

4760 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.6100000000000003,delta_out=0.1599999999999997,xin=2.45,xout=2.8

4765 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.6100000000000003,delta_out=0.21999999999999975,xin=2.45,xout=2.85

4770 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.6100000000000003,delta_out=0.2799999999999998,xin=2.45,xout=2.9

4775 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.6100000000000003,delta_out=0.33999999999999986,xin=2.45,xout=2.95

4780 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.6100000000000003,delta_out=0.39999999999999947,xin=2.45,xout=3.0

4785 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.7000000000000002,delta_out=0.040000000000000036,xin=2.5,xout=2.7

4790 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.7000000000000002,delta_out=0.09999999999999964,xin=2.5,xout=2.75

4795 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.7000000000000002,delta_out=0.1599999999999997,xin=2.5,xout=2.8

4800 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.7000000000000002,delta_out=0.21999999999999975,xin=2.5,xout=2.85

4805 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.7000000000000002,delta_out=0.2799999999999998,xin=2.5,xout=2.9

4810 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.7000000000000002,delta_out=0.33999999999999986,xin=2.5,xout=2.95

4815 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.7000000000000002,delta_out=0.39999999999999947,xin=2.5,xout=3.0

4820 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.79,delta_out=0.040000000000000036,xin=2.55,xout=2.7

4825 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.79,delta_out=0.09999999999999964,xin=2.55,xout=2.75

4830 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.79,delta_out=0.1599999999999997,xin=2.55,xout=2.8

4835 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.79,delta_out=0.21999999999999975,xin=2.55,xout=2.85

4840 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.79,delta_out=0.2799999999999998,xin=2.55,xout=2.9

4845 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.79,delta_out=0.33999999999999986,xin=2.55,xout=2.95

4850 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.79,delta_out=0.39999999999999947,xin=2.55,xout=3.0

4855 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.8800000000000008,delta_out=0.040000000000000036,xin=2.6,xout=2.7

4860 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.8800000000000008,delta_out=0.09999999999999964,xin=2.6,xout=2.75

4865 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.8800000000000008,delta_out=0.1599999999999997,xin=2.6,xout=2.8

4870 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.8800000000000008,delta_out=0.21999999999999975,xin=2.6,xout=2.85

4875 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.8800000000000008,delta_out=0.2799999999999998,xin=2.6,xout=2.9

4880 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.8800000000000008,delta_out=0.33999999999999986,xin=2.6,xout=2.95

4885 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.8800000000000008,delta_out=0.39999999999999947,xin=2.6,xout=3.0

4890 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.9699999999999998,delta_out=0.040000000000000036,xin=2.65,xout=2.7

4895 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.9699999999999998,delta_out=0.09999999999999964,xin=2.65,xout=2.75

4900 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.9699999999999998,delta_out=0.1599999999999997,xin=2.65,xout=2.8

4905 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.9699999999999998,delta_out=0.21999999999999975,xin=2.65,xout=2.85

4910 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.9699999999999998,delta_out=0.2799999999999998,xin=2.65,xout=2.9

4915 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.9699999999999998,delta_out=0.33999999999999986,xin=2.65,xout=2.95

4920 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.9699999999999998,delta_out=0.39999999999999947,xin=2.65,xout=3.0

4925 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.0600000000000005,delta_out=0.09999999999999964,xin=2.7,xout=2.75

4930 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.0600000000000005,delta_out=0.1599999999999997,xin=2.7,xout=2.8

4935 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.0600000000000005,delta_out=0.21999999999999975,xin=2.7,xout=2.85

4940 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.0600000000000005,delta_out=0.2799999999999998,xin=2.7,xout=2.9

4945 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.0600000000000005,delta_out=0.33999999999999986,xin=2.7,xout=2.95

4950 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.0600000000000005,delta_out=0.39999999999999947,xin=2.7,xout=3.0

4955 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.1500000000000004,delta_out=0.1599999999999997,xin=2.75,xout=2.8

4960 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.1500000000000004,delta_out=0.21999999999999975,xin=2.75,xout=2.85

4965 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.1500000000000004,delta_out=0.2799999999999998,xin=2.75,xout=2.9

4970 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.1500000000000004,delta_out=0.33999999999999986,xin=2.75,xout=2.95

4975 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.1500000000000004,delta_out=0.39999999999999947,xin=2.75,xout=3.0

4980 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.2400000000000002,delta_out=0.21999999999999975,xin=2.8,xout=2.85

4985 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.2400000000000002,delta_out=0.2799999999999998,xin=2.8,xout=2.9

4990 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.2400000000000002,delta_out=0.33999999999999986,xin=2.8,xout=2.95

4995 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.2400000000000002,delta_out=0.39999999999999947,xin=2.8,xout=3.0

5000 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.33,delta_out=0.2799999999999998,xin=2.85,xout=2.9

5005 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.33,delta_out=0.33999999999999986,xin=2.85,xout=2.95

5010 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.33,delta_out=0.39999999999999947,xin=2.85,xout=3.0

5015 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.42,delta_out=0.33999999999999986,xin=2.9,xout=2.95

5020 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.42,delta_out=0.39999999999999947,xin=2.9,xout=3.0

5025 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.5100000000000007,delta_out=0.39999999999999947,xin=2.95,xout=3.0

5030 no. graph's alpha=0.5,beta=0.2,gamma=0.3,delta_in=0.018750000000000155,delta_out=0.0,xin=2.45,xout=3.0

5035 no. graph's alpha=0.5,beta=0.2,gamma=0.3,delta_in=0.06250000000000006,delta_out=0.0,xin=2.5,xout=3.0

5040 no. graph's alpha=0.5,beta=0.2,gamma=0.3,delta_in=0.10624999999999968,delta_out=0.0,xin=2.55,xout=3.0

5045 no. graph's alpha=0.5,beta=0.2,gamma=0.3,delta_in=0.14999999999999986,delta_out=0.0,xin=2.6,xout=3.0

5050 no. graph's alpha=0.5,beta=0.2,gamma=0.3,delta_in=0.19374999999999976,delta_out=0.0,xin=2.65,xout=3.0

5055 no. graph's alpha=0.5,beta=0.2,gamma=0.3,delta_in=0.23749999999999993,delta_out=0.0,xin=2.7,xout=3.0

5060 no. graph's alpha=0.5,beta=0.2,gamma=0.3,delta_in=0.28124999999999983,delta_out=0.0,xin=2.75,xout=3.0

5065 no. graph's alpha=0.5,beta=0.2,gamma=0.3,delta_in=0.32499999999999973,delta_out=0.0,xin=2.8,xout=3.0

5070 no. graph's alpha=0.5,beta=0.2,gamma=0.3,delta_in=0.3687499999999999,delta_out=0.0,xin=2.85,xout=3.0

5075 no. graph's alpha=0.5,beta=0.2,gamma=0.3,delta_in=0.4124999999999998,delta_out=0.0,xin=2.9,xout=3.0

5080 no. graph's alpha=0.5,beta=0.2,gamma=0.3,delta_in=0.45625,delta_out=0.0,xin=2.95,xout=3.0

5085 no. graph's alpha=0.5,beta=0.3,gamma=0.2,delta_in=0.0,delta_out=0.0,xin=2.25,xout=3.0

5090 no. graph's alpha=0.5,beta=0.3,gamma=0.2,delta_in=0.05714285714285688,delta_out=0.0,xin=2.3,xout=3.0

5095 no. graph's alpha=0.5,beta=0.3,gamma=0.2,delta_in=0.1142857142857144,delta_out=0.0,xin=2.35,xout=3.0

5100 no. graph's alpha=0.5,beta=0.3,gamma=0.2,delta_in=0.17142857142857126,delta_out=0.0,xin=2.4,xout=3.0

5105 no. graph's alpha=0.5,beta=0.3,gamma=0.2,delta_in=0.2285714285714288,delta_out=0.0,xin=2.45,xout=3.0

5110 no. graph's alpha=0.5,beta=0.3,gamma=0.2,delta_in=0.28571428571428564,delta_out=0.0,xin=2.5,xout=3.0

5115 no. graph's alpha=0.5,beta=0.3,gamma=0.2,delta_in=0.34285714285714286,delta_out=0.0,xin=2.55,xout=3.0

5120 no. graph's alpha=0.5,beta=0.3,gamma=0.2,delta_in=0.4000000000000001,delta_out=0.0,xin=2.6,xout=3.0

5125 no. graph's alpha=0.5,beta=0.3,gamma=0.2,delta_in=0.45714285714285724,delta_out=0.0,xin=2.65,xout=3.0

5130 no. graph's alpha=0.5,beta=0.3,gamma=0.2,delta_in=0.5142857142857145,delta_out=0.0,xin=2.7,xout=3.0

5135 no. graph's alpha=0.5,beta=0.3,gamma=0.2,delta_in=0.5714285714285716,delta_out=0.0,xin=2.75,xout=3.0

5140 no. graph's alpha=0.5,beta=0.3,gamma=0.2,delta_in=0.6285714285714282,delta_out=0.0,xin=2.8,xout=3.0

5145 no. graph's alpha=0.5,beta=0.3,gamma=0.2,delta_in=0.685714285714286,delta_out=0.0,xin=2.85,xout=3.0

5150 no. graph's alpha=0.5,beta=0.3,gamma=0.2,delta_in=0.7428571428571427,delta_out=0.0,xin=2.9,xout=3.0

5155 no. graph's alpha=0.5,beta=0.3,gamma=0.2,delta_in=0.8000000000000005,delta_out=0.0,xin=2.95,xout=3.0

5160 no. graph's alpha=0.5,beta=0.4,gamma=0.1,delta_in=0.05833333333333357,delta_out=0.0,xin=2.15,xout=3.0

5165 no. graph's alpha=0.5,beta=0.4,gamma=0.1,delta_in=0.13333333333333347,delta_out=0.0,xin=2.2,xout=3.0

5170 no. graph's alpha=0.5,beta=0.4,gamma=0.1,delta_in=0.20833333333333334,delta_out=0.0,xin=2.25,xout=3.0

5175 no. graph's alpha=0.5,beta=0.4,gamma=0.1,delta_in=0.2833333333333332,delta_out=0.0,xin=2.3,xout=3.0

5180 no. graph's alpha=0.5,beta=0.4,gamma=0.1,delta_in=0.35833333333333384,delta_out=0.0,xin=2.35,xout=3.0

5185 no. graph's alpha=0.5,beta=0.4,gamma=0.1,delta_in=0.43333333333333374,delta_out=0.0,xin=2.4,xout=3.0

5190 no. graph's alpha=0.5,beta=0.4,gamma=0.1,delta_in=0.5083333333333336,delta_out=0.0,xin=2.45,xout=3.0

5195 no. graph's alpha=0.5,beta=0.4,gamma=0.1,delta_in=0.5833333333333335,delta_out=0.0,xin=2.5,xout=3.0

5200 no. graph's alpha=0.5,beta=0.4,gamma=0.1,delta_in=0.6583333333333334,delta_out=0.0,xin=2.55,xout=3.0

5205 no. graph's alpha=0.5,beta=0.4,gamma=0.1,delta_in=0.7333333333333341,delta_out=0.0,xin=2.6,xout=3.0

5210 no. graph's alpha=0.5,beta=0.4,gamma=0.1,delta_in=0.8083333333333331,delta_out=0.0,xin=2.65,xout=3.0

5215 no. graph's alpha=0.5,beta=0.4,gamma=0.1,delta_in=0.8833333333333337,delta_out=0.0,xin=2.7,xout=3.0

5220 no. graph's alpha=0.5,beta=0.4,gamma=0.1,delta_in=0.9583333333333337,delta_out=0.0,xin=2.75,xout=3.0

5225 no. graph's alpha=0.5,beta=0.4,gamma=0.1,delta_in=1.0333333333333337,delta_out=0.0,xin=2.8,xout=3.0

5230 no. graph's alpha=0.5,beta=0.4,gamma=0.1,delta_in=1.1083333333333334,delta_out=0.0,xin=2.85,xout=3.0

5235 no. graph's alpha=0.5,beta=0.4,gamma=0.1,delta_in=1.1833333333333333,delta_out=0.0,xin=2.9,xout=3.0

5240 no. graph's alpha=0.5,beta=0.4,gamma=0.1,delta_in=1.258333333333334,delta_out=0.0,xin=2.95,xout=3.0

Experiment-1's graph types for Xin=Xout:

In experiment-1, each 5 graph's types are same but graphs are different from each other; because they are random graphs.

 But for showing graphs types,

we are going to show one graph type from each similar 5 graph's types.

For example, Here, we skip showing 1 no.,2 no.,3 no.,4 no. graph's type because they are similar to 5 no. graph's type. We represent 5 no graph's type behalf of 1 no.,2 no.,3 no.,4 no. graph's type.

5 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.040000000000000036,delta_out=1.0600000000000005,xin=2.7,xout=2.7

10 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.09999999999999964,delta_out=1.1500000000000004,xin=2.75,xout=2.75

15 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.1599999999999997,delta_out=1.2400000000000002,xin=2.8,xout=2.8

20 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.21999999999999975,delta_out=1.33,xin=2.85,xout=2.85

25 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.2799999999999998,delta_out=1.42,xin=2.9,xout=2.9

30 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.33999999999999986,delta_out=1.5100000000000007,xin=2.95,xout=2.95

35 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.39999999999999947,delta_out=1.6000000000000005,xin=3.0,xout=3.0

40 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.03750000000000031,delta_out=0.7624999999999998,xin=2.45,xout=2.45

45 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.12499999999999956,delta_out=0.8749999999999997,xin=2.5,xout=2.5

50 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.2124999999999988,delta_out=0.9874999999999984,xin=2.55,xout=2.55

55 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.29999999999999916,delta_out=1.0999999999999992,xin=2.6,xout=2.6

60 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.3874999999999995,delta_out=1.212499999999999,xin=2.65,xout=2.65

65 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.47499999999999987,delta_out=1.3249999999999988,xin=2.7,xout=2.7

70 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.5624999999999991,delta_out=1.4374999999999987,xin=2.75,xout=2.75

75 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.6499999999999995,delta_out=1.5499999999999985,xin=2.8,xout=2.8

80 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.7374999999999998,delta_out=1.6624999999999994,xin=2.85,xout=2.85

85 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.8249999999999991,delta_out=1.7749999999999992,xin=2.9,xout=2.9

90 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.9124999999999994,delta_out=1.887499999999999,xin=2.95,xout=2.95

95 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.9999999999999987,delta_out=1.999999999999999,xin=3.0,xout=3.0

100 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.13333333333333194,delta_out=0.5666666666666663,xin=2.3,xout=2.3

105 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.2666666666666661,delta_out=0.7166666666666661,xin=2.35,xout=2.35

110 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.3999999999999988,delta_out=0.8666666666666658,xin=2.4,xout=2.4

115 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.533333333333333,delta_out=1.016666666666667,xin=2.45,xout=2.45

120 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.6666666666666656,delta_out=1.1666666666666667,xin=2.5,xout=2.5

125 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.7999999999999984,delta_out=1.316666666666665,xin=2.55,xout=2.55

130 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.9333333333333332,delta_out=1.4666666666666663,xin=2.6,xout=2.6

135 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.0666666666666653,delta_out=1.616666666666666,xin=2.65,xout=2.65

140 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.2000000000000002,delta_out=1.7666666666666657,xin=2.7,xout=2.7

145 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.3333333333333321,delta_out=1.9166666666666654,xin=2.75,xout=2.75

150 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.4666666666666655,delta_out=2.066666666666665,xin=2.8,xout=2.8

155 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.599999999999999,delta_out=2.2166666666666663,xin=2.85,xout=2.85

160 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.7333333333333325,delta_out=2.3666666666666663,xin=2.9,xout=2.9

165 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.8666666666666658,delta_out=2.5166666666666657,xin=2.95,xout=2.95

170 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.9999999999999993,delta_out=2.6666666666666656,xin=3.0,xout=3.0

175 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.1749999999999996,delta_out=0.1749999999999996,xin=2.15,xout=2.15

180 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.40000000000000036,delta_out=0.40000000000000036,xin=2.2,xout=2.2

185 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.6249999999999989,delta_out=0.6249999999999989,xin=2.25,xout=2.25

190 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.8499999999999985,delta_out=0.8499999999999985,xin=2.3,xout=2.3

195 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.0750000000000004,delta_out=1.0750000000000004,xin=2.35,xout=2.35

200 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.3,delta_out=1.3,xin=2.4,xout=2.4

205 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.5249999999999997,delta_out=1.5249999999999997,xin=2.45,xout=2.45

210 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.7499999999999993,delta_out=1.7499999999999993,xin=2.5,xout=2.5

215 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.974999999999999,delta_out=1.974999999999999,xin=2.55,xout=2.55

220 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.2000000000000006,delta_out=2.2000000000000006,xin=2.6,xout=2.6

225 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.424999999999998,delta_out=2.424999999999998,xin=2.65,xout=2.65

230 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.65,delta_out=2.65,xin=2.7,xout=2.7

235 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.8749999999999996,delta_out=2.8749999999999996,xin=2.75,xout=2.75

240 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.099999999999999,delta_out=3.099999999999999,xin=2.8,xout=2.8

245 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.324999999999999,delta_out=3.324999999999999,xin=2.85,xout=2.85

250 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.5499999999999985,delta_out=3.5499999999999985,xin=2.9,xout=2.9

255 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.7750000000000004,delta_out=3.7750000000000004,xin=2.95,xout=2.95

260 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=4.0,delta_out=4.0,xin=3.0,xout=3.0

265 no. graph's alpha=0.2,beta=0.3,gamma=0.5,delta_in=0.0,delta_out=0.857142857142858,xin=3.0,xout=3.0

270 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.033333333333334096,delta_out=0.6000000000000004,xin=2.7,xout=2.7

275 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.08333333333333376,delta_out=0.6666666666666672,xin=2.75,xout=2.75

280 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.13333333333333344,delta_out=0.7333333333333332,xin=2.8,xout=2.8

285 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.18333333333333385,delta_out=0.8000000000000006,xin=2.85,xout=2.85

290 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.2333333333333335,delta_out=0.8666666666666666,xin=2.9,xout=2.9

295 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.28333333333333394,delta_out=0.933333333333334,xin=2.95,xout=2.95

300 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.3333333333333336,delta_out=1.0000000000000007,xin=3.0,xout=3.0

305 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.03000000000000025,delta_out=0.3200000000000003,xin=2.45,xout=2.45

310 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.10000000000000009,delta_out=0.3999999999999999,xin=2.5,xout=2.5

315 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.16999999999999948,delta_out=0.48,xin=2.55,xout=2.55

320 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.23999999999999977,delta_out=0.56,xin=2.6,xout=2.6

325 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.3099999999999996,delta_out=0.6400000000000001,xin=2.65,xout=2.65

330 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.3799999999999999,delta_out=0.7200000000000002,xin=2.7,xout=2.7

335 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.44999999999999973,delta_out=0.8000000000000003,xin=2.75,xout=2.75

340 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.5199999999999996,delta_out=0.8799999999999994,xin=2.8,xout=2.8

345 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.5899999999999999,delta_out=0.9600000000000004,xin=2.85,xout=2.85

350 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.6599999999999997,delta_out=1.0399999999999996,xin=2.9,xout=2.9

355 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.73,delta_out=1.1200000000000006,xin=2.95,xout=2.95

360 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.7999999999999994,delta_out=1.2000000000000006,xin=3.0,xout=3.0

365 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.0,delta_out=5.551115123125783e-16,xin=2.25,xout=2.25

370 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.10000000000000009,delta_out=0.09999999999999953,xin=2.3,xout=2.3

375 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.20000000000000018,delta_out=0.20000000000000073,xin=2.35,xout=2.35

380 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.30000000000000027,delta_out=0.2999999999999997,xin=2.4,xout=2.4

385 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.40000000000000036,delta_out=0.4000000000000009,xin=2.45,xout=2.45

390 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.5000000000000004,delta_out=0.4999999999999999,xin=2.5,xout=2.5

395 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.6000000000000005,delta_out=0.6,xin=2.55,xout=2.55

400 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.7000000000000006,delta_out=0.7000000000000001,xin=2.6,xout=2.6

405 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.8000000000000007,delta_out=0.8000000000000002,xin=2.65,xout=2.65

410 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.9000000000000008,delta_out=0.9000000000000002,xin=2.7,xout=2.7

415 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.9999999999999998,delta_out=1.0000000000000002,xin=2.75,xout=2.75

420 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.0999999999999988,delta_out=1.0999999999999992,xin=2.8,xout=2.8

425 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.2,delta_out=1.2000000000000004,xin=2.85,xout=2.85

430 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.299999999999999,delta_out=1.2999999999999994,xin=2.9,xout=2.9

435 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.4000000000000001,delta_out=1.4000000000000006,xin=2.95,xout=2.95

440 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.5000000000000002,delta_out=1.5000000000000007,xin=3.0,xout=3.0

445 no. graph's alpha=0.3,beta=0.2,gamma=0.5,delta_in=0.0,delta_out=0.4999999999999996,xin=3.0,xout=3.0

450 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.0285714285714286,delta_out=0.27142857142857135,xin=2.7,xout=2.7

455 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.07142857142857117,delta_out=0.32142857142857095,xin=2.75,xout=2.75

460 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.11428571428571407,delta_out=0.37142857142857116,xin=2.8,xout=2.8

465 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.15714285714285697,delta_out=0.4214285714285714,xin=2.85,xout=2.85

470 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.19999999999999987,delta_out=0.4714285714285709,xin=2.9,xout=2.9

475 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.24285714285714277,delta_out=0.5214285714285711,xin=2.95,xout=2.95

480 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.28571428571428537,delta_out=0.5714285714285707,xin=3.0,xout=3.0

485 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.02500000000000021,delta_out=0.02499999999999984,xin=2.45,xout=2.45

490 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.08333333333333304,delta_out=0.08333333333333341,xin=2.5,xout=2.5

495 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.14166666666666589,delta_out=0.14166666666666625,xin=2.55,xout=2.55

500 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.19999999999999946,delta_out=0.19999999999999982,xin=2.6,xout=2.6

505 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.258333333333333,delta_out=0.25833333333333264,xin=2.65,xout=2.65

510 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.3166666666666666,delta_out=0.3166666666666662,xin=2.7,xout=2.7

515 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.37499999999999944,delta_out=0.3749999999999998,xin=2.75,xout=2.75

520 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.433333333333333,delta_out=0.4333333333333326,xin=2.8,xout=2.8

525 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.4916666666666666,delta_out=0.4916666666666662,xin=2.85,xout=2.85

530 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.5499999999999994,delta_out=0.5499999999999998,xin=2.9,xout=2.9

535 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.608333333333333,delta_out=0.6083333333333334,xin=2.95,xout=2.95

540 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.6666666666666659,delta_out=0.6666666666666662,xin=3.0,xout=3.0

545 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.3200000000000003,delta_out=0.03000000000000025,xin=2.45,xout=2.45

550 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.3999999999999999,delta_out=0.10000000000000009,xin=2.5,xout=2.5

555 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.48,delta_out=0.16999999999999948,xin=2.55,xout=2.55

560 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.56,delta_out=0.23999999999999977,xin=2.6,xout=2.6

565 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.6400000000000001,delta_out=0.3099999999999996,xin=2.65,xout=2.65

570 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.7200000000000002,delta_out=0.3799999999999999,xin=2.7,xout=2.7

575 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.8000000000000003,delta_out=0.44999999999999973,xin=2.75,xout=2.75

580 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.8799999999999994,delta_out=0.5199999999999996,xin=2.8,xout=2.8

585 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.9600000000000004,delta_out=0.5899999999999999,xin=2.85,xout=2.85

590 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=1.04,delta_out=0.6599999999999997,xin=2.9,xout=2.9

595 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=1.120000000000001,delta_out=0.73,xin=2.95,xout=2.95

600 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=1.200000000000001,delta_out=0.7999999999999994,xin=3.0,xout=3.0

605 no. graph's alpha=0.4,beta=0.1,gamma=0.5,delta_in=0.0,delta_out=0.22222222222222193,xin=3.0,xout=3.0

610 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.0250000000000003,delta_out=0.025000000000000577,xin=2.7,xout=2.7

615 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.06250000000000061,delta_out=0.06250000000000033,xin=2.75,xout=2.75

620 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.10000000000000037,delta_out=0.10000000000000009,xin=2.8,xout=2.8

625 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.13750000000000068,delta_out=0.1375000000000004,xin=2.85,xout=2.85

630 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.17500000000000043,delta_out=0.17500000000000016,xin=2.9,xout=2.9

635 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.21250000000000074,delta_out=0.21250000000000047,xin=2.95,xout=2.95

640 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.2500000000000005,delta_out=0.2500000000000002,xin=3.0,xout=3.0

645 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.2714285714285711,delta_out=0.0285714285714286,xin=2.7,xout=2.7

650 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.3214285714285713,delta_out=0.07142857142857117,xin=2.75,xout=2.75

655 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.37142857142857083,delta_out=0.11428571428571407,xin=2.8,xout=2.8

660 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.42142857142857104,delta_out=0.15714285714285697,xin=2.85,xout=2.85

665 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.47142857142857125,delta_out=0.19999999999999987,xin=2.9,xout=2.9

670 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.5214285714285715,delta_out=0.24285714285714277,xin=2.95,xout=2.95

675 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.5714285714285711,delta_out=0.28571428571428537,xin=3.0,xout=3.0

680 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.6000000000000004,delta_out=0.03333333333333373,xin=2.7,xout=2.7

685 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.6666666666666672,delta_out=0.08333333333333413,xin=2.75,xout=2.75

690 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.7333333333333332,delta_out=0.1333333333333338,xin=2.8,xout=2.8

695 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.8000000000000006,delta_out=0.1833333333333342,xin=2.85,xout=2.85

700 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.8666666666666666,delta_out=0.23333333333333386,xin=2.9,xout=2.9

705 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.933333333333334,delta_out=0.28333333333333427,xin=2.95,xout=2.95

710 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=1.0000000000000007,delta_out=0.3333333333333339,xin=3.0,xout=3.0

715 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.0600000000000005,delta_out=0.040000000000000036,xin=2.7,xout=2.7

720 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.1500000000000004,delta_out=0.09999999999999964,xin=2.75,xout=2.75

725 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.2400000000000002,delta_out=0.1599999999999997,xin=2.8,xout=2.8

730 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.33,delta_out=0.21999999999999975,xin=2.85,xout=2.85

735 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.42,delta_out=0.2799999999999998,xin=2.9,xout=2.9

740 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.5100000000000007,delta_out=0.33999999999999986,xin=2.95,xout=2.95

745 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.6000000000000005,delta_out=0.39999999999999947,xin=3.0,xout=3.0

750 no. graph's alpha=0.5,beta=0.2,gamma=0.3,delta_in=0.4999999999999996,delta_out=0.0,xin=3.0,xout=3.0

755 no. graph's alpha=0.5,beta=0.3,gamma=0.2,delta_in=0.8571428571428577,delta_out=0.0,xin=3.0,xout=3.0

760 no. graph's alpha=0.5,beta=0.4,gamma=0.1,delta_in=1.333333333333334,delta_out=0.0,xin=3.0,xout=3.0

Experiment-2's graph types for Xin>Xout:

In experiment-2, each 5 graph's types are same but graphs are different from each other;

because they are random graphs.

 But for showing graphs types,

we are going to show one graph type from each similar 5 graph's types.

For example, Here, we skip showing 1 no.,2 no.,3 no.,4 no. graph's type because they are similar to 5 no. graph's type. We represent 5 no graph's type behalf of 1 no.,2 no.,3 no.,4 no. graph's type.

5 no. graph's alpha=0.1,beta=0.4,gamma=0.5,delta_in=0.0,delta_out=0.0,xin=3.0,xout=2.111111111111111

10 no. graph's alpha=0.1,beta=0.4,gamma=0.5,delta_in=0.0,delta_out=0.2,xin=3.0,xout=2.2444444444444445

15 no. graph's alpha=0.1,beta=0.4,gamma=0.5,delta_in=0.0,delta_out=0.4,xin=3.0,xout=2.3777777777777778

20 no. graph's alpha=0.1,beta=0.4,gamma=0.5,delta_in=0.0,delta_out=0.6,xin=3.0,xout=2.5111111111111106

25 no. graph's alpha=0.1,beta=0.4,gamma=0.5,delta_in=0.0,delta_out=0.8,xin=3.0,xout=2.6444444444444444

30 no. graph's alpha=0.1,beta=0.4,gamma=0.5,delta_in=0.0,delta_out=1.0,xin=3.0,xout=2.7777777777777777

35 no. graph's alpha=0.1,beta=0.4,gamma=0.5,delta_in=0.0,delta_out=1.2,xin=3.0,xout=2.911111111111111

40 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.0,delta_out=0.0,xin=2.666666666666667,xout=2.111111111111111

45 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.0,delta_out=0.2,xin=2.666666666666667,xout=2.2222222222222223

50 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.0,delta_out=0.4,xin=2.666666666666667,xout=2.3333333333333335

55 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.0,delta_out=0.6,xin=2.666666666666667,xout=2.4444444444444446

60 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.0,delta_out=0.8,xin=2.666666666666667,xout=2.5555555555555554

65 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.0,delta_out=1.0,xin=2.666666666666667,xout=2.6666666666666665

70 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.2,delta_out=0.0,xin=2.8333333333333335,xout=2.111111111111111

75 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.2,delta_out=0.2,xin=2.8333333333333335,xout=2.2222222222222223

80 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.2,delta_out=0.4,xin=2.8333333333333335,xout=2.3333333333333335

85 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.2,delta_out=0.6,xin=2.8333333333333335,xout=2.4444444444444446

90 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.2,delta_out=0.8,xin=2.8333333333333335,xout=2.5555555555555554

95 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.2,delta_out=1.0,xin=2.8333333333333335,xout=2.6666666666666665

100 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.2,delta_out=1.2,xin=2.8333333333333335,xout=2.7777777777777777

105 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.4,delta_out=0.0,xin=3.0,xout=2.111111111111111

110 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.4,delta_out=0.2,xin=3.0,xout=2.2222222222222223

115 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.4,delta_out=0.4,xin=3.0,xout=2.3333333333333335

120 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.4,delta_out=0.6,xin=3.0,xout=2.4444444444444446

125 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.4,delta_out=0.8,xin=3.0,xout=2.5555555555555554

130 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.4,delta_out=1.0,xin=3.0,xout=2.6666666666666665

135 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.4,delta_out=1.2,xin=3.0,xout=2.7777777777777777

140 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.4,delta_out=1.4,xin=3.0,xout=2.888888888888889

145 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.0,delta_out=0.0,xin=2.428571428571429,xout=2.111111111111111

150 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.0,delta_out=0.2,xin=2.428571428571429,xout=2.2

155 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.0,delta_out=0.4,xin=2.428571428571429,xout=2.288888888888889

160 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.0,delta_out=0.6,xin=2.428571428571429,xout=2.377777777777778

165 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.2,delta_out=0.0,xin=2.542857142857143,xout=2.111111111111111

170 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.2,delta_out=0.2,xin=2.542857142857143,xout=2.2

175 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.2,delta_out=0.4,xin=2.542857142857143,xout=2.288888888888889

180 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.2,delta_out=0.6,xin=2.542857142857143,xout=2.377777777777778

185 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.2,delta_out=0.8,xin=2.542857142857143,xout=2.4666666666666672

190 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.4,delta_out=0.0,xin=2.657142857142857,xout=2.111111111111111

195 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.4,delta_out=0.2,xin=2.657142857142857,xout=2.2

200 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.4,delta_out=0.4,xin=2.657142857142857,xout=2.288888888888889

205 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.4,delta_out=0.6,xin=2.657142857142857,xout=2.377777777777778

210 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.4,delta_out=0.8,xin=2.657142857142857,xout=2.4666666666666672

215 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.4,delta_out=1.0,xin=2.657142857142857,xout=2.555555555555556

220 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.4,delta_out=1.2,xin=2.657142857142857,xout=2.6444444444444444

225 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.6,delta_out=0.0,xin=2.7714285714285714,xout=2.111111111111111

230 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.6,delta_out=0.2,xin=2.7714285714285714,xout=2.2

235 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.6,delta_out=0.4,xin=2.7714285714285714,xout=2.288888888888889

240 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.6,delta_out=0.6,xin=2.7714285714285714,xout=2.377777777777778

245 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.6,delta_out=0.8,xin=2.7714285714285714,xout=2.4666666666666672

250 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.6,delta_out=1.0,xin=2.7714285714285714,xout=2.555555555555556

255 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.6,delta_out=1.2,xin=2.7714285714285714,xout=2.6444444444444444

260 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.6,delta_out=1.4,xin=2.7714285714285714,xout=2.7333333333333334

265 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.8,delta_out=0.0,xin=2.885714285714286,xout=2.111111111111111

270 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.8,delta_out=0.2,xin=2.885714285714286,xout=2.2

275 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.8,delta_out=0.4,xin=2.885714285714286,xout=2.288888888888889

280 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.8,delta_out=0.6,xin=2.885714285714286,xout=2.377777777777778

285 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.8,delta_out=0.8,xin=2.885714285714286,xout=2.4666666666666672

290 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.8,delta_out=1.0,xin=2.885714285714286,xout=2.555555555555556

295 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.8,delta_out=1.2,xin=2.885714285714286,xout=2.6444444444444444

300 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.8,delta_out=1.4,xin=2.885714285714286,xout=2.7333333333333334

305 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.8,delta_out=1.6,xin=2.885714285714286,xout=2.8222222222222224

310 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.0,delta_out=0.0,xin=2.25,xout=2.111111111111111

315 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.0,delta_out=0.2,xin=2.25,xout=2.177777777777778

320 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.0,delta_out=0.4,xin=2.25,xout=2.2444444444444445

325 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.2,delta_out=0.0,xin=2.325,xout=2.111111111111111

330 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.2,delta_out=0.2,xin=2.325,xout=2.177777777777778

335 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.2,delta_out=0.4,xin=2.325,xout=2.2444444444444445

340 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.2,delta_out=0.6,xin=2.325,xout=2.3111111111111113

345 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.4,delta_out=0.0,xin=2.4,xout=2.111111111111111

350 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.4,delta_out=0.2,xin=2.4,xout=2.177777777777778

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365 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.4,delta_out=0.8,xin=2.4,xout=2.377777777777778

370 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.6,delta_out=0.0,xin=2.475,xout=2.111111111111111

375 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.6,delta_out=0.2,xin=2.475,xout=2.177777777777778

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390 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.6,delta_out=0.8,xin=2.475,xout=2.377777777777778

395 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.6,delta_out=1.0,xin=2.475,xout=2.444444444444445

400 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.8,delta_out=0.0,xin=2.5500000000000003,xout=2.111111111111111

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435 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.0,delta_out=0.0,xin=2.6250000000000004,xout=2.111111111111111

440 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.0,delta_out=0.2,xin=2.6250000000000004,xout=2.177777777777778

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470 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.0,delta_out=1.4,xin=2.6250000000000004,xout=2.5777777777777784

475 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.2,delta_out=0.0,xin=2.7000000000000006,xout=2.111111111111111

480 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.2,delta_out=0.2,xin=2.7000000000000006,xout=2.177777777777778

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515 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.2,delta_out=1.6,xin=2.7000000000000006,xout=2.6444444444444444

520 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.4,delta_out=0.0,xin=2.775,xout=2.111111111111111

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565 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.4,delta_out=1.8,xin=2.775,xout=2.7111111111111117

570 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.6,delta_out=0.0,xin=2.8500000000000005,xout=2.111111111111111

575 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.6,delta_out=0.2,xin=2.8500000000000005,xout=2.177777777777778

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620 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.6,delta_out=2.0,xin=2.8500000000000005,xout=2.777777777777778

625 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.6,delta_out=2.2,xin=2.8500000000000005,xout=2.844444444444445

630 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.8,delta_out=0.0,xin=2.9250000000000003,xout=2.111111111111111

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705 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=2.0,delta_out=0.4,xin=3.0,xout=2.2444444444444445

710 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=2.0,delta_out=0.6,xin=3.0,xout=2.3111111111111113

715 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=2.0,delta_out=0.8,xin=3.0,xout=2.377777777777778

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760 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=2.0,delta_out=2.6,xin=3.0,xout=2.9777777777777783

765 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.2,delta_out=0.0,xin=2.1555555555555554,xout=2.111111111111111

770 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.4,delta_out=0.0,xin=2.1999999999999997,xout=2.111111111111111

775 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.4,delta_out=0.2,xin=2.1999999999999997,xout=2.1555555555555554

780 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.6,delta_out=0.0,xin=2.2444444444444445,xout=2.111111111111111

785 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.6,delta_out=0.2,xin=2.2444444444444445,xout=2.1555555555555554

790 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.6,delta_out=0.4,xin=2.2444444444444445,xout=2.1999999999999997

795 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.8,delta_out=0.0,xin=2.2888888888888888,xout=2.111111111111111

800 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.8,delta_out=0.2,xin=2.2888888888888888,xout=2.1555555555555554

805 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.8,delta_out=0.4,xin=2.2888888888888888,xout=2.1999999999999997

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815 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.0,delta_out=0.0,xin=2.3333333333333335,xout=2.111111111111111

820 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.0,delta_out=0.2,xin=2.3333333333333335,xout=2.1555555555555554

825 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.0,delta_out=0.4,xin=2.3333333333333335,xout=2.1999999999999997

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835 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.0,delta_out=0.8,xin=2.3333333333333335,xout=2.2888888888888888

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845 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.2,delta_out=0.2,xin=2.3777777777777778,xout=2.1555555555555554

850 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.2,delta_out=0.4,xin=2.3777777777777778,xout=2.1999999999999997

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900 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.4,delta_out=1.2,xin=2.4222222222222225,xout=2.3777777777777778

905 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.6,delta_out=0.0,xin=2.466666666666667,xout=2.111111111111111

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1095 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.4,delta_out=0.0,xin=2.6444444444444444,xout=2.111111111111111

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1110 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.4,delta_out=0.6,xin=2.6444444444444444,xout=2.2444444444444445

1115 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.4,delta_out=0.8,xin=2.6444444444444444,xout=2.2888888888888888

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1140 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.4,delta_out=1.8,xin=2.6444444444444444,xout=2.5111111111111115

1145 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.4,delta_out=2.0,xin=2.6444444444444444,xout=2.5555555555555554

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1155 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.6,delta_out=0.0,xin=2.6888888888888887,xout=2.111111111111111

1160 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.6,delta_out=0.2,xin=2.6888888888888887,xout=2.1555555555555554

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1170 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.6,delta_out=0.6,xin=2.6888888888888887,xout=2.2444444444444445

1175 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.6,delta_out=0.8,xin=2.6888888888888887,xout=2.2888888888888888

1180 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.6,delta_out=1.0,xin=2.6888888888888887,xout=2.3333333333333335

1185 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.6,delta_out=1.2,xin=2.6888888888888887,xout=2.3777777777777778

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1195 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.6,delta_out=1.6,xin=2.6888888888888887,xout=2.466666666666667

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1205 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.6,delta_out=2.0,xin=2.6888888888888887,xout=2.5555555555555554

1210 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.6,delta_out=2.2,xin=2.6888888888888887,xout=2.5999999999999996

1215 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.6,delta_out=2.4,xin=2.6888888888888887,xout=2.6444444444444444

1220 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.8,delta_out=0.0,xin=2.7333333333333334,xout=2.111111111111111

1225 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.8,delta_out=0.2,xin=2.7333333333333334,xout=2.1555555555555554

1230 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.8,delta_out=0.4,xin=2.7333333333333334,xout=2.1999999999999997

1235 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.8,delta_out=0.6,xin=2.7333333333333334,xout=2.2444444444444445

1240 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.8,delta_out=0.8,xin=2.7333333333333334,xout=2.2888888888888888

1245 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.8,delta_out=1.0,xin=2.7333333333333334,xout=2.3333333333333335

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1255 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.8,delta_out=1.4,xin=2.7333333333333334,xout=2.4222222222222225

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1265 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.8,delta_out=1.8,xin=2.7333333333333334,xout=2.5111111111111115

1270 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.8,delta_out=2.0,xin=2.7333333333333334,xout=2.5555555555555554

1275 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.8,delta_out=2.2,xin=2.7333333333333334,xout=2.5999999999999996

1280 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.8,delta_out=2.4,xin=2.7333333333333334,xout=2.6444444444444444

1285 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.8,delta_out=2.6,xin=2.7333333333333334,xout=2.6888888888888887

1290 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.0,delta_out=0.0,xin=2.7777777777777777,xout=2.111111111111111

1295 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.0,delta_out=0.2,xin=2.7777777777777777,xout=2.1555555555555554

1300 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.0,delta_out=0.4,xin=2.7777777777777777,xout=2.1999999999999997

1305 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.0,delta_out=0.6,xin=2.7777777777777777,xout=2.2444444444444445

1310 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.0,delta_out=0.8,xin=2.7777777777777777,xout=2.2888888888888888

1315 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.0,delta_out=1.0,xin=2.7777777777777777,xout=2.3333333333333335

1320 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.0,delta_out=1.2,xin=2.7777777777777777,xout=2.3777777777777778

1325 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.0,delta_out=1.4,xin=2.7777777777777777,xout=2.4222222222222225

1330 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.0,delta_out=1.6,xin=2.7777777777777777,xout=2.466666666666667

1335 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.0,delta_out=1.8,xin=2.7777777777777777,xout=2.5111111111111115

1340 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.0,delta_out=2.0,xin=2.7777777777777777,xout=2.5555555555555554

1345 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.0,delta_out=2.2,xin=2.7777777777777777,xout=2.5999999999999996

1350 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.0,delta_out=2.4,xin=2.7777777777777777,xout=2.6444444444444444

1355 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.0,delta_out=2.6,xin=2.7777777777777777,xout=2.6888888888888887

1360 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.0,delta_out=2.8,xin=2.7777777777777777,xout=2.7333333333333334

1365 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.2,delta_out=0.0,xin=2.8222222222222224,xout=2.111111111111111

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1380 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.2,delta_out=0.6,xin=2.8222222222222224,xout=2.2444444444444445

1385 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.2,delta_out=0.8,xin=2.8222222222222224,xout=2.2888888888888888

1390 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.2,delta_out=1.0,xin=2.8222222222222224,xout=2.3333333333333335

1395 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.2,delta_out=1.2,xin=2.8222222222222224,xout=2.3777777777777778

1400 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.2,delta_out=1.4,xin=2.8222222222222224,xout=2.4222222222222225

1405 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.2,delta_out=1.6,xin=2.8222222222222224,xout=2.466666666666667

1410 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.2,delta_out=1.8,xin=2.8222222222222224,xout=2.5111111111111115

1415 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.2,delta_out=2.0,xin=2.8222222222222224,xout=2.5555555555555554

1420 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.2,delta_out=2.2,xin=2.8222222222222224,xout=2.5999999999999996

1425 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.2,delta_out=2.4,xin=2.8222222222222224,xout=2.6444444444444444

1430 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.2,delta_out=2.6,xin=2.8222222222222224,xout=2.6888888888888887

1435 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.2,delta_out=2.8,xin=2.8222222222222224,xout=2.7333333333333334

1440 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.2,delta_out=3.0,xin=2.8222222222222224,xout=2.7777777777777777

1445 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.4,delta_out=0.0,xin=2.8666666666666667,xout=2.111111111111111

1450 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.4,delta_out=0.2,xin=2.8666666666666667,xout=2.1555555555555554

1455 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.4,delta_out=0.4,xin=2.8666666666666667,xout=2.1999999999999997

1460 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.4,delta_out=0.6,xin=2.8666666666666667,xout=2.2444444444444445

1465 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.4,delta_out=0.8,xin=2.8666666666666667,xout=2.2888888888888888

1470 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.4,delta_out=1.0,xin=2.8666666666666667,xout=2.3333333333333335

1475 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.4,delta_out=1.2,xin=2.8666666666666667,xout=2.3777777777777778

1480 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.4,delta_out=1.4,xin=2.8666666666666667,xout=2.4222222222222225

1485 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.4,delta_out=1.6,xin=2.8666666666666667,xout=2.466666666666667

1490 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.4,delta_out=1.8,xin=2.8666666666666667,xout=2.5111111111111115

1495 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.4,delta_out=2.0,xin=2.8666666666666667,xout=2.5555555555555554

1500 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.4,delta_out=2.2,xin=2.8666666666666667,xout=2.5999999999999996

1505 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.4,delta_out=2.4,xin=2.8666666666666667,xout=2.6444444444444444

1510 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.4,delta_out=2.6,xin=2.8666666666666667,xout=2.6888888888888887

1515 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.4,delta_out=2.8,xin=2.8666666666666667,xout=2.7333333333333334

1520 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.4,delta_out=3.0,xin=2.8666666666666667,xout=2.7777777777777777

1525 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.4,delta_out=3.2,xin=2.8666666666666667,xout=2.8222222222222224

1530 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.6,delta_out=0.0,xin=2.911111111111111,xout=2.111111111111111

1535 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.6,delta_out=0.2,xin=2.911111111111111,xout=2.1555555555555554

1540 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.6,delta_out=0.4,xin=2.911111111111111,xout=2.1999999999999997

1545 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.6,delta_out=0.6,xin=2.911111111111111,xout=2.2444444444444445

1550 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.6,delta_out=0.8,xin=2.911111111111111,xout=2.2888888888888888

1555 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.6,delta_out=1.0,xin=2.911111111111111,xout=2.3333333333333335

1560 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.6,delta_out=1.2,xin=2.911111111111111,xout=2.3777777777777778

1565 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.6,delta_out=1.4,xin=2.911111111111111,xout=2.4222222222222225

1570 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.6,delta_out=1.6,xin=2.911111111111111,xout=2.466666666666667

1575 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.6,delta_out=1.8,xin=2.911111111111111,xout=2.5111111111111115

1580 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.6,delta_out=2.0,xin=2.911111111111111,xout=2.5555555555555554

1585 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.6,delta_out=2.2,xin=2.911111111111111,xout=2.5999999999999996

1590 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.6,delta_out=2.4,xin=2.911111111111111,xout=2.6444444444444444

1595 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.6,delta_out=2.6,xin=2.911111111111111,xout=2.6888888888888887

1600 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.6,delta_out=2.8,xin=2.911111111111111,xout=2.7333333333333334

1605 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.6,delta_out=3.0,xin=2.911111111111111,xout=2.7777777777777777

1610 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.6,delta_out=3.2,xin=2.911111111111111,xout=2.8222222222222224

1615 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.6,delta_out=3.4,xin=2.911111111111111,xout=2.8666666666666667

1620 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.8,delta_out=0.0,xin=2.9555555555555557,xout=2.111111111111111

1625 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.8,delta_out=0.2,xin=2.9555555555555557,xout=2.1555555555555554

1630 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.8,delta_out=0.4,xin=2.9555555555555557,xout=2.1999999999999997

1635 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.8,delta_out=0.6,xin=2.9555555555555557,xout=2.2444444444444445

1640 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.8,delta_out=0.8,xin=2.9555555555555557,xout=2.2888888888888888

1645 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.8,delta_out=1.0,xin=2.9555555555555557,xout=2.3333333333333335

1650 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.8,delta_out=1.2,xin=2.9555555555555557,xout=2.3777777777777778

1655 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.8,delta_out=1.4,xin=2.9555555555555557,xout=2.4222222222222225

1660 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.8,delta_out=1.6,xin=2.9555555555555557,xout=2.466666666666667

1665 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.8,delta_out=1.8,xin=2.9555555555555557,xout=2.5111111111111115

1670 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.8,delta_out=2.0,xin=2.9555555555555557,xout=2.5555555555555554

1675 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.8,delta_out=2.2,xin=2.9555555555555557,xout=2.5999999999999996

1680 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.8,delta_out=2.4,xin=2.9555555555555557,xout=2.6444444444444444

1685 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.8,delta_out=2.6,xin=2.9555555555555557,xout=2.6888888888888887

1690 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.8,delta_out=2.8,xin=2.9555555555555557,xout=2.7333333333333334

1695 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.8,delta_out=3.0,xin=2.9555555555555557,xout=2.7777777777777777

1700 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.8,delta_out=3.2,xin=2.9555555555555557,xout=2.8222222222222224

1705 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.8,delta_out=3.4,xin=2.9555555555555557,xout=2.8666666666666667

1710 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.8,delta_out=3.6,xin=2.9555555555555557,xout=2.911111111111111

1715 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=4.0,delta_out=0.0,xin=3.0,xout=2.111111111111111

1720 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=4.0,delta_out=0.2,xin=3.0,xout=2.1555555555555554

1725 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=4.0,delta_out=0.4,xin=3.0,xout=2.1999999999999997

1730 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=4.0,delta_out=0.6,xin=3.0,xout=2.2444444444444445

1735 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=4.0,delta_out=0.8,xin=3.0,xout=2.2888888888888888

1740 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=4.0,delta_out=1.0,xin=3.0,xout=2.3333333333333335

1745 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=4.0,delta_out=1.2,xin=3.0,xout=2.3777777777777778

1750 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=4.0,delta_out=1.4,xin=3.0,xout=2.4222222222222225

1755 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=4.0,delta_out=1.6,xin=3.0,xout=2.466666666666667

1760 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=4.0,delta_out=1.8,xin=3.0,xout=2.5111111111111115

1765 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=4.0,delta_out=2.0,xin=3.0,xout=2.5555555555555554

1770 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=4.0,delta_out=2.2,xin=3.0,xout=2.5999999999999996

1775 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=4.0,delta_out=2.4,xin=3.0,xout=2.6444444444444444

1780 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=4.0,delta_out=2.6,xin=3.0,xout=2.6888888888888887

1785 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=4.0,delta_out=2.8,xin=3.0,xout=2.7333333333333334

1790 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=4.0,delta_out=3.0,xin=3.0,xout=2.7777777777777777

1795 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=4.0,delta_out=3.2,xin=3.0,xout=2.8222222222222224

1800 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=4.0,delta_out=3.4,xin=3.0,xout=2.8666666666666667

1805 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=4.0,delta_out=3.6,xin=3.0,xout=2.911111111111111

1810 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=4.0,delta_out=3.8,xin=3.0,xout=2.9555555555555557

1815 no. graph's alpha=0.2,beta=0.3,gamma=0.5,delta_in=0.0,delta_out=0.0,xin=3.0,xout=2.25

1820 no. graph's alpha=0.2,beta=0.3,gamma=0.5,delta_in=0.0,delta_out=0.2,xin=3.0,xout=2.425

1825 no. graph's alpha=0.2,beta=0.3,gamma=0.5,delta_in=0.0,delta_out=0.4,xin=3.0,xout=2.6

1830 no. graph's alpha=0.2,beta=0.3,gamma=0.5,delta_in=0.0,delta_out=0.6,xin=3.0,xout=2.7749999999999995

1835 no. graph's alpha=0.2,beta=0.3,gamma=0.5,delta_in=0.0,delta_out=0.8,xin=3.0,xout=2.95

1840 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.0,delta_out=0.0,xin=2.6666666666666665,xout=2.25

1845 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.0,delta_out=0.2,xin=2.6666666666666665,xout=2.4

1850 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.0,delta_out=0.4,xin=2.6666666666666665,xout=2.55

1855 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.2,delta_out=0.0,xin=2.8666666666666667,xout=2.25

1860 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.2,delta_out=0.2,xin=2.8666666666666667,xout=2.4

1865 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.2,delta_out=0.4,xin=2.8666666666666667,xout=2.55

1870 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.2,delta_out=0.6,xin=2.8666666666666667,xout=2.7

1875 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.2,delta_out=0.8,xin=2.8666666666666667,xout=2.85

1880 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.0,delta_out=0.0,xin=2.428571428571429,xout=2.25

1885 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.0,delta_out=0.2,xin=2.428571428571429,xout=2.3749999999999996

1890 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.2,delta_out=0.0,xin=2.5714285714285716,xout=2.25

1895 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.2,delta_out=0.2,xin=2.5714285714285716,xout=2.3749999999999996

1900 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.2,delta_out=0.4,xin=2.5714285714285716,xout=2.5

1905 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.4,delta_out=0.0,xin=2.7142857142857144,xout=2.25

1910 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.4,delta_out=0.2,xin=2.7142857142857144,xout=2.3749999999999996

1915 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.4,delta_out=0.4,xin=2.7142857142857144,xout=2.5

1920 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.4,delta_out=0.6,xin=2.7142857142857144,xout=2.625

1925 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.6,delta_out=0.0,xin=2.857142857142857,xout=2.25

1930 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.6,delta_out=0.2,xin=2.857142857142857,xout=2.3749999999999996

1935 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.6,delta_out=0.4,xin=2.857142857142857,xout=2.5

1940 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.6,delta_out=0.6,xin=2.857142857142857,xout=2.625

1945 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.6,delta_out=0.8,xin=2.857142857142857,xout=2.75

1950 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.2,delta_out=0.0,xin=2.3499999999999996,xout=2.25

1955 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.4,delta_out=0.0,xin=2.4499999999999997,xout=2.25

1960 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.4,delta_out=0.2,xin=2.4499999999999997,xout=2.3499999999999996

1965 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.6,delta_out=0.0,xin=2.55,xout=2.25

1970 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.6,delta_out=0.2,xin=2.55,xout=2.3499999999999996

1975 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.6,delta_out=0.4,xin=2.55,xout=2.4499999999999997

1980 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.8,delta_out=0.0,xin=2.65,xout=2.25

1985 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.8,delta_out=0.2,xin=2.65,xout=2.3499999999999996

1990 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.8,delta_out=0.4,xin=2.65,xout=2.4499999999999997

1995 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.8,delta_out=0.6,xin=2.65,xout=2.55

2000 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.0,delta_out=0.0,xin=2.75,xout=2.25

2005 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.0,delta_out=0.2,xin=2.75,xout=2.3499999999999996

2010 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.0,delta_out=0.4,xin=2.75,xout=2.4499999999999997

2015 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.0,delta_out=0.6,xin=2.75,xout=2.55

2020 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.0,delta_out=0.8,xin=2.75,xout=2.65

2025 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.2,delta_out=0.0,xin=2.8499999999999996,xout=2.25

2030 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.2,delta_out=0.2,xin=2.8499999999999996,xout=2.3499999999999996

2035 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.2,delta_out=0.4,xin=2.8499999999999996,xout=2.4499999999999997

2040 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.2,delta_out=0.6,xin=2.8499999999999996,xout=2.55

2045 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.2,delta_out=0.8,xin=2.8499999999999996,xout=2.65

2050 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.2,delta_out=1.0,xin=2.8499999999999996,xout=2.75

2055 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.4,delta_out=0.0,xin=2.9499999999999997,xout=2.25

2060 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.4,delta_out=0.2,xin=2.9499999999999997,xout=2.3499999999999996

2065 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.4,delta_out=0.4,xin=2.9499999999999997,xout=2.4499999999999997

2070 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.4,delta_out=0.6,xin=2.9499999999999997,xout=2.55

2075 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.4,delta_out=0.8,xin=2.9499999999999997,xout=2.65

2080 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.4,delta_out=1.0,xin=2.9499999999999997,xout=2.75

2085 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.4,delta_out=1.2,xin=2.9499999999999997,xout=2.8499999999999996

2090 no. graph's alpha=0.3,beta=0.2,gamma=0.5,delta_in=0.0,delta_out=0.0,xin=3.0,xout=2.428571428571429

2095 no. graph's alpha=0.3,beta=0.2,gamma=0.5,delta_in=0.0,delta_out=0.2,xin=3.0,xout=2.6571428571428575

2100 no. graph's alpha=0.3,beta=0.2,gamma=0.5,delta_in=0.0,delta_out=0.4,xin=3.0,xout=2.885714285714286

2105 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.0,delta_out=0.0,xin=2.666666666666667,xout=2.428571428571429

2110 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.0,delta_out=0.2,xin=2.666666666666667,xout=2.628571428571429

2115 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.2,delta_out=0.0,xin=2.9,xout=2.428571428571429

2120 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.2,delta_out=0.2,xin=2.9,xout=2.628571428571429

2125 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.2,delta_out=0.4,xin=2.9,xout=2.8285714285714287

2130 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.2,delta_out=0.0,xin=2.6,xout=2.428571428571429

2135 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.4,delta_out=0.0,xin=2.7714285714285714,xout=2.428571428571429

2140 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.4,delta_out=0.2,xin=2.7714285714285714,xout=2.6

2145 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.6,delta_out=0.0,xin=2.942857142857143,xout=2.428571428571429

2150 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.6,delta_out=0.2,xin=2.942857142857143,xout=2.6

2155 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.6,delta_out=0.4,xin=2.942857142857143,xout=2.7714285714285714

2160 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.4,delta_out=0.0,xin=2.5,xout=2.428571428571429

2165 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.6,delta_out=0.0,xin=2.625,xout=2.428571428571429

2170 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.6,delta_out=0.2,xin=2.625,xout=2.5714285714285716

2175 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.8,delta_out=0.0,xin=2.75,xout=2.428571428571429

2180 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.8,delta_out=0.2,xin=2.75,xout=2.5714285714285716

2185 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.8,delta_out=0.4,xin=2.75,xout=2.7142857142857144

2190 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=1.0,delta_out=0.0,xin=2.8749999999999996,xout=2.428571428571429

2195 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=1.0,delta_out=0.2,xin=2.8749999999999996,xout=2.5714285714285716

2200 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=1.0,delta_out=0.4,xin=2.8749999999999996,xout=2.7142857142857144

2205 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=1.0,delta_out=0.6,xin=2.8749999999999996,xout=2.857142857142857

2210 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=1.2,delta_out=0.0,xin=2.9999999999999996,xout=2.428571428571429

2215 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=1.2,delta_out=0.2,xin=2.9999999999999996,xout=2.5714285714285716

2220 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=1.2,delta_out=0.4,xin=2.9999999999999996,xout=2.7142857142857144

2225 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=1.2,delta_out=0.6,xin=2.9999999999999996,xout=2.857142857142857

2230 no. graph's alpha=0.4,beta=0.1,gamma=0.5,delta_in=0.0,delta_out=0.0,xin=3.0,xout=2.666666666666667

2235 no. graph's alpha=0.4,beta=0.1,gamma=0.5,delta_in=0.0,delta_out=0.2,xin=3.0,xout=2.966666666666667

2240 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.2,delta_out=0.0,xin=2.933333333333333,xout=2.6666666666666665

2245 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.4,delta_out=0.0,xin=2.8285714285714287,xout=2.666666666666667

2250 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.6,delta_out=0.0,xin=2.7,xout=2.6666666666666665

2255 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.8,delta_out=0.0,xin=2.85,xout=2.6666666666666665

2260 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=1.0,delta_out=0.0,xin=2.9999999999999996,xout=2.6666666666666665

2265 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=1.0,delta_out=0.2,xin=2.9999999999999996,xout=2.8666666666666667

2270 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.2,delta_out=0.0,xin=2.7777777777777777,xout=2.666666666666667

2275 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.4,delta_out=0.0,xin=2.888888888888889,xout=2.666666666666667

2280 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.4,delta_out=0.2,xin=2.888888888888889,xout=2.8333333333333335

2285 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.6,delta_out=0.0,xin=3.0,xout=2.666666666666667

2290 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.6,delta_out=0.2,xin=3.0,xout=2.8333333333333335

Experiment-2's graph types for Xin<Xout:

In experiment-2, each 5 graph's types are same but graphs are different from each other;

because they are random graphs.

 But for showing graphs types,

we are going to show one graph type from each similar 5 graph's types.

For example, Here, we skip showing 1 no.,2 no.,3 no.,4 no. graph's type because they are similar to 5 no. graph's type. We represent 5 no graph's type behalf of 1 no.,2 no.,3 no.,4 no. graph's type.

5 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.0,delta_out=1.2,xin=2.666666666666667,xout=2.7777777777777777

10 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.0,delta_out=1.4,xin=2.666666666666667,xout=2.888888888888889

15 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.0,delta_out=1.6,xin=2.666666666666667,xout=3.0

20 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.2,delta_out=1.4,xin=2.8333333333333335,xout=2.888888888888889

25 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.2,delta_out=1.6,xin=2.8333333333333335,xout=3.0

30 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.0,delta_out=0.8,xin=2.428571428571429,xout=2.4666666666666672

35 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.0,delta_out=1.0,xin=2.428571428571429,xout=2.555555555555556

40 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.0,delta_out=1.2,xin=2.428571428571429,xout=2.6444444444444444

45 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.0,delta_out=1.4,xin=2.428571428571429,xout=2.7333333333333334

50 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.0,delta_out=1.6,xin=2.428571428571429,xout=2.8222222222222224

55 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.0,delta_out=1.8,xin=2.428571428571429,xout=2.9111111111111114

60 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.2,delta_out=1.0,xin=2.542857142857143,xout=2.555555555555556

65 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.2,delta_out=1.2,xin=2.542857142857143,xout=2.6444444444444444

70 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.2,delta_out=1.4,xin=2.542857142857143,xout=2.7333333333333334

75 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.2,delta_out=1.6,xin=2.542857142857143,xout=2.8222222222222224

80 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.2,delta_out=1.8,xin=2.542857142857143,xout=2.9111111111111114

85 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.4,delta_out=1.4,xin=2.657142857142857,xout=2.7333333333333334

90 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.4,delta_out=1.6,xin=2.657142857142857,xout=2.8222222222222224

95 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.4,delta_out=1.8,xin=2.657142857142857,xout=2.9111111111111114

100 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.6,delta_out=1.6,xin=2.7714285714285714,xout=2.8222222222222224

105 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.6,delta_out=1.8,xin=2.7714285714285714,xout=2.9111111111111114

110 no. graph's alpha=0.1,beta=0.6,gamma=0.3,delta_in=0.8,delta_out=1.8,xin=2.885714285714286,xout=2.9111111111111114

115 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.0,delta_out=0.6,xin=2.25,xout=2.3111111111111113

120 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.0,delta_out=0.8,xin=2.25,xout=2.377777777777778

125 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.0,delta_out=1.0,xin=2.25,xout=2.444444444444445

130 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.0,delta_out=1.2,xin=2.25,xout=2.511111111111111

135 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.0,delta_out=1.4,xin=2.25,xout=2.5777777777777784

140 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.0,delta_out=1.6,xin=2.25,xout=2.6444444444444444

145 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.0,delta_out=1.8,xin=2.25,xout=2.7111111111111117

150 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.0,delta_out=2.0,xin=2.25,xout=2.777777777777778

155 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.0,delta_out=2.2,xin=2.25,xout=2.844444444444445

160 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.0,delta_out=2.4,xin=2.25,xout=2.9111111111111114

165 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.0,delta_out=2.6,xin=2.25,xout=2.9777777777777783

170 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.2,delta_out=0.8,xin=2.325,xout=2.377777777777778

175 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.2,delta_out=1.0,xin=2.325,xout=2.444444444444445

180 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.2,delta_out=1.2,xin=2.325,xout=2.511111111111111

185 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.2,delta_out=1.4,xin=2.325,xout=2.5777777777777784

190 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.2,delta_out=1.6,xin=2.325,xout=2.6444444444444444

195 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.2,delta_out=1.8,xin=2.325,xout=2.7111111111111117

200 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.2,delta_out=2.0,xin=2.325,xout=2.777777777777778

205 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.2,delta_out=2.2,xin=2.325,xout=2.844444444444445

210 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.2,delta_out=2.4,xin=2.325,xout=2.9111111111111114

215 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.2,delta_out=2.6,xin=2.325,xout=2.9777777777777783

220 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.4,delta_out=1.0,xin=2.4,xout=2.444444444444445

225 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.4,delta_out=1.2,xin=2.4,xout=2.511111111111111

230 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.4,delta_out=1.4,xin=2.4,xout=2.5777777777777784

235 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.4,delta_out=1.6,xin=2.4,xout=2.6444444444444444

240 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.4,delta_out=1.8,xin=2.4,xout=2.7111111111111117

245 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.4,delta_out=2.0,xin=2.4,xout=2.777777777777778

250 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.4,delta_out=2.2,xin=2.4,xout=2.844444444444445

255 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.4,delta_out=2.4,xin=2.4,xout=2.9111111111111114

260 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.4,delta_out=2.6,xin=2.4,xout=2.9777777777777783

265 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.6,delta_out=1.2,xin=2.475,xout=2.511111111111111

270 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.6,delta_out=1.4,xin=2.475,xout=2.5777777777777784

275 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.6,delta_out=1.6,xin=2.475,xout=2.6444444444444444

280 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.6,delta_out=1.8,xin=2.475,xout=2.7111111111111117

285 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.6,delta_out=2.0,xin=2.475,xout=2.777777777777778

290 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.6,delta_out=2.2,xin=2.475,xout=2.844444444444445

295 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.6,delta_out=2.4,xin=2.475,xout=2.9111111111111114

300 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.6,delta_out=2.6,xin=2.475,xout=2.9777777777777783

305 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.8,delta_out=1.4,xin=2.5500000000000003,xout=2.5777777777777784

310 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.8,delta_out=1.6,xin=2.5500000000000003,xout=2.6444444444444444

315 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.8,delta_out=1.8,xin=2.5500000000000003,xout=2.7111111111111117

320 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.8,delta_out=2.0,xin=2.5500000000000003,xout=2.777777777777778

325 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.8,delta_out=2.2,xin=2.5500000000000003,xout=2.844444444444445

330 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.8,delta_out=2.4,xin=2.5500000000000003,xout=2.9111111111111114

335 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=0.8,delta_out=2.6,xin=2.5500000000000003,xout=2.9777777777777783

340 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.0,delta_out=1.6,xin=2.6250000000000004,xout=2.6444444444444444

345 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.0,delta_out=1.8,xin=2.6250000000000004,xout=2.7111111111111117

350 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.0,delta_out=2.0,xin=2.6250000000000004,xout=2.777777777777778

355 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.0,delta_out=2.2,xin=2.6250000000000004,xout=2.844444444444445

360 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.0,delta_out=2.4,xin=2.6250000000000004,xout=2.9111111111111114

365 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.0,delta_out=2.6,xin=2.6250000000000004,xout=2.9777777777777783

370 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.2,delta_out=1.8,xin=2.7000000000000006,xout=2.7111111111111117

375 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.2,delta_out=2.0,xin=2.7000000000000006,xout=2.777777777777778

380 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.2,delta_out=2.2,xin=2.7000000000000006,xout=2.844444444444445

385 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.2,delta_out=2.4,xin=2.7000000000000006,xout=2.9111111111111114

390 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.2,delta_out=2.6,xin=2.7000000000000006,xout=2.9777777777777783

395 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.4,delta_out=2.0,xin=2.775,xout=2.777777777777778

400 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.4,delta_out=2.2,xin=2.775,xout=2.844444444444445

405 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.4,delta_out=2.4,xin=2.775,xout=2.9111111111111114

410 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.4,delta_out=2.6,xin=2.775,xout=2.9777777777777783

415 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.6,delta_out=2.4,xin=2.8500000000000005,xout=2.9111111111111114

420 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.6,delta_out=2.6,xin=2.8500000000000005,xout=2.9777777777777783

425 no. graph's alpha=0.1,beta=0.7,gamma=0.2,delta_in=1.8,delta_out=2.6,xin=2.9250000000000003,xout=2.9777777777777783

430 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.0,delta_out=0.2,xin=2.111111111111111,xout=2.1555555555555554

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440 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.0,delta_out=0.6,xin=2.111111111111111,xout=2.2444444444444445

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465 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.0,delta_out=1.6,xin=2.111111111111111,xout=2.466666666666667

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1035 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.4,delta_out=2.0,xin=2.4222222222222225,xout=2.5555555555555554

1040 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.4,delta_out=2.2,xin=2.4222222222222225,xout=2.5999999999999996

1045 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.4,delta_out=2.4,xin=2.4222222222222225,xout=2.6444444444444444

1050 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.4,delta_out=2.6,xin=2.4222222222222225,xout=2.6888888888888887

1055 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.4,delta_out=2.8,xin=2.4222222222222225,xout=2.7333333333333334

1060 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.4,delta_out=3.0,xin=2.4222222222222225,xout=2.7777777777777777

1065 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.4,delta_out=3.2,xin=2.4222222222222225,xout=2.8222222222222224

1070 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.4,delta_out=3.4,xin=2.4222222222222225,xout=2.8666666666666667

1075 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.4,delta_out=3.6,xin=2.4222222222222225,xout=2.911111111111111

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1085 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.4,delta_out=4.0,xin=2.4222222222222225,xout=3.0

1090 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.6,delta_out=1.8,xin=2.466666666666667,xout=2.5111111111111115

1095 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.6,delta_out=2.0,xin=2.466666666666667,xout=2.5555555555555554

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1105 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.6,delta_out=2.4,xin=2.466666666666667,xout=2.6444444444444444

1110 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.6,delta_out=2.6,xin=2.466666666666667,xout=2.6888888888888887

1115 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.6,delta_out=2.8,xin=2.466666666666667,xout=2.7333333333333334

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1130 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.6,delta_out=3.4,xin=2.466666666666667,xout=2.8666666666666667

1135 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.6,delta_out=3.6,xin=2.466666666666667,xout=2.911111111111111

1140 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.6,delta_out=3.8,xin=2.466666666666667,xout=2.9555555555555557

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1150 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.8,delta_out=2.0,xin=2.5111111111111115,xout=2.5555555555555554

1155 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.8,delta_out=2.2,xin=2.5111111111111115,xout=2.5999999999999996

1160 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.8,delta_out=2.4,xin=2.5111111111111115,xout=2.6444444444444444

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1170 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.8,delta_out=2.8,xin=2.5111111111111115,xout=2.7333333333333334

1175 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.8,delta_out=3.0,xin=2.5111111111111115,xout=2.7777777777777777

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1195 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.8,delta_out=3.8,xin=2.5111111111111115,xout=2.9555555555555557

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1245 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.0,delta_out=3.8,xin=2.5555555555555554,xout=2.9555555555555557

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1330 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.4,delta_out=3.8,xin=2.6444444444444444,xout=2.9555555555555557

1335 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.4,delta_out=4.0,xin=2.6444444444444444,xout=3.0

1340 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.6,delta_out=2.8,xin=2.6888888888888887,xout=2.7333333333333334

1345 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.6,delta_out=3.0,xin=2.6888888888888887,xout=2.7777777777777777

1350 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.6,delta_out=3.2,xin=2.6888888888888887,xout=2.8222222222222224

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1360 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.6,delta_out=3.6,xin=2.6888888888888887,xout=2.911111111111111

1365 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.6,delta_out=3.8,xin=2.6888888888888887,xout=2.9555555555555557

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1375 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.8,delta_out=3.0,xin=2.7333333333333334,xout=2.7777777777777777

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1425 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.0,delta_out=4.0,xin=2.7777777777777777,xout=3.0

1430 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.2,delta_out=3.4,xin=2.8222222222222224,xout=2.8666666666666667

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1440 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.2,delta_out=3.8,xin=2.8222222222222224,xout=2.9555555555555557

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1455 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.4,delta_out=3.8,xin=2.8666666666666667,xout=2.9555555555555557

1460 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.4,delta_out=4.0,xin=2.8666666666666667,xout=3.0

1465 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.6,delta_out=3.8,xin=2.911111111111111,xout=2.9555555555555557

1470 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.6,delta_out=4.0,xin=2.911111111111111,xout=3.0

1475 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.8,delta_out=4.0,xin=2.9555555555555557,xout=3.0

1480 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.0,delta_out=0.6,xin=2.6666666666666665,xout=2.7

1485 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.0,delta_out=0.8,xin=2.6666666666666665,xout=2.85

1490 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.0,delta_out=1.0,xin=2.6666666666666665,xout=2.9999999999999996

1495 no. graph's alpha=0.2,beta=0.4,gamma=0.4,delta_in=0.2,delta_out=1.0,xin=2.8666666666666667,xout=2.9999999999999996

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1505 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.0,delta_out=0.6,xin=2.428571428571429,xout=2.625

1510 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.0,delta_out=0.8,xin=2.428571428571429,xout=2.75

1515 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.0,delta_out=1.0,xin=2.428571428571429,xout=2.8749999999999996

1520 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.0,delta_out=1.2,xin=2.428571428571429,xout=2.9999999999999996

1525 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.2,delta_out=0.6,xin=2.5714285714285716,xout=2.625

1530 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.2,delta_out=0.8,xin=2.5714285714285716,xout=2.75

1535 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.2,delta_out=1.0,xin=2.5714285714285716,xout=2.8749999999999996

1540 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.2,delta_out=1.2,xin=2.5714285714285716,xout=2.9999999999999996

1545 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.4,delta_out=0.8,xin=2.7142857142857144,xout=2.75

1550 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.4,delta_out=1.0,xin=2.7142857142857144,xout=2.8749999999999996

1555 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.4,delta_out=1.2,xin=2.7142857142857144,xout=2.9999999999999996

1560 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.6,delta_out=1.0,xin=2.857142857142857,xout=2.8749999999999996

1565 no. graph's alpha=0.2,beta=0.5,gamma=0.3,delta_in=0.6,delta_out=1.2,xin=2.857142857142857,xout=2.9999999999999996

1570 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.0,delta_out=0.2,xin=2.25,xout=2.3499999999999996

1575 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.0,delta_out=0.4,xin=2.25,xout=2.4499999999999997

1580 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.0,delta_out=0.6,xin=2.25,xout=2.55

1585 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.0,delta_out=0.8,xin=2.25,xout=2.65

1590 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.0,delta_out=1.0,xin=2.25,xout=2.75

1595 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.0,delta_out=1.2,xin=2.25,xout=2.8499999999999996

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1605 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.2,delta_out=0.4,xin=2.3499999999999996,xout=2.4499999999999997

1610 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.2,delta_out=0.6,xin=2.3499999999999996,xout=2.55

1615 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.2,delta_out=0.8,xin=2.3499999999999996,xout=2.65

1620 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.2,delta_out=1.0,xin=2.3499999999999996,xout=2.75

1625 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.2,delta_out=1.2,xin=2.3499999999999996,xout=2.8499999999999996

1630 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.2,delta_out=1.4,xin=2.3499999999999996,xout=2.9499999999999997

1635 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.4,delta_out=0.6,xin=2.4499999999999997,xout=2.55

1640 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.4,delta_out=0.8,xin=2.4499999999999997,xout=2.65

1645 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.4,delta_out=1.0,xin=2.4499999999999997,xout=2.75

1650 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.4,delta_out=1.2,xin=2.4499999999999997,xout=2.8499999999999996

1655 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.4,delta_out=1.4,xin=2.4499999999999997,xout=2.9499999999999997

1660 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.6,delta_out=0.8,xin=2.55,xout=2.65

1665 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.6,delta_out=1.0,xin=2.55,xout=2.75

1670 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.6,delta_out=1.2,xin=2.55,xout=2.8499999999999996

1675 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.6,delta_out=1.4,xin=2.55,xout=2.9499999999999997

1680 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.8,delta_out=1.0,xin=2.65,xout=2.75

1685 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.8,delta_out=1.2,xin=2.65,xout=2.8499999999999996

1690 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.8,delta_out=1.4,xin=2.65,xout=2.9499999999999997

1695 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.0,delta_out=1.2,xin=2.75,xout=2.8499999999999996

1700 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.0,delta_out=1.4,xin=2.75,xout=2.9499999999999997

1705 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.2,delta_out=1.4,xin=2.8499999999999996,xout=2.9499999999999997

1710 no. graph's alpha=0.3,beta=0.3,gamma=0.4,delta_in=0.0,delta_out=0.4,xin=2.666666666666667,xout=2.8285714285714287

1715 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.0,delta_out=0.2,xin=2.428571428571429,xout=2.6

1720 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.0,delta_out=0.4,xin=2.428571428571429,xout=2.7714285714285714

1725 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.0,delta_out=0.6,xin=2.428571428571429,xout=2.942857142857143

1730 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.2,delta_out=0.4,xin=2.6,xout=2.7714285714285714

1735 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.2,delta_out=0.6,xin=2.6,xout=2.942857142857143

1740 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.4,delta_out=0.6,xin=2.7714285714285714,xout=2.942857142857143

1745 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.0,delta_out=0.0,xin=2.25,xout=2.428571428571429

1750 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.0,delta_out=0.2,xin=2.25,xout=2.5714285714285716

1755 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.0,delta_out=0.4,xin=2.25,xout=2.7142857142857144

1760 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.0,delta_out=0.6,xin=2.25,xout=2.857142857142857

1765 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.2,delta_out=0.0,xin=2.3749999999999996,xout=2.428571428571429

1770 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.2,delta_out=0.2,xin=2.3749999999999996,xout=2.5714285714285716

1775 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.2,delta_out=0.4,xin=2.3749999999999996,xout=2.7142857142857144

1780 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.2,delta_out=0.6,xin=2.3749999999999996,xout=2.857142857142857

1785 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.4,delta_out=0.2,xin=2.5,xout=2.5714285714285716

1790 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.4,delta_out=0.4,xin=2.5,xout=2.7142857142857144

1795 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.4,delta_out=0.6,xin=2.5,xout=2.857142857142857

1800 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.6,delta_out=0.4,xin=2.625,xout=2.7142857142857144

1805 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.6,delta_out=0.6,xin=2.625,xout=2.857142857142857

1810 no. graph's alpha=0.3,beta=0.5,gamma=0.2,delta_in=0.8,delta_out=0.6,xin=2.75,xout=2.857142857142857

1815 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.0,delta_out=0.2,xin=2.6666666666666665,xout=2.933333333333333

1820 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.0,delta_out=0.0,xin=2.428571428571429,xout=2.666666666666667

1825 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.0,delta_out=0.2,xin=2.428571428571429,xout=2.9

1830 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.2,delta_out=0.0,xin=2.628571428571429,xout=2.666666666666667

1835 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.2,delta_out=0.2,xin=2.628571428571429,xout=2.9

1840 no. graph's alpha=0.4,beta=0.3,gamma=0.3,delta_in=0.4,delta_out=0.2,xin=2.8285714285714287,xout=2.9

1845 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.0,delta_out=0.0,xin=2.25,xout=2.6666666666666665

1850 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.0,delta_out=0.2,xin=2.25,xout=2.8666666666666667

1855 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.2,delta_out=0.0,xin=2.4,xout=2.6666666666666665

1860 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.2,delta_out=0.2,xin=2.4,xout=2.8666666666666667

1865 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.4,delta_out=0.0,xin=2.55,xout=2.6666666666666665

1870 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.4,delta_out=0.2,xin=2.55,xout=2.8666666666666667

1875 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.6,delta_out=0.2,xin=2.7,xout=2.8666666666666667

1880 no. graph's alpha=0.4,beta=0.4,gamma=0.2,delta_in=0.8,delta_out=0.2,xin=2.85,xout=2.8666666666666667

1885 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.0,delta_out=0.0,xin=2.111111111111111,xout=2.666666666666667

1890 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.0,delta_out=0.2,xin=2.111111111111111,xout=2.8333333333333335

1895 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.0,delta_out=0.4,xin=2.111111111111111,xout=3.0

1900 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.2,delta_out=0.0,xin=2.2222222222222223,xout=2.666666666666667

1905 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.2,delta_out=0.2,xin=2.2222222222222223,xout=2.8333333333333335

1910 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.2,delta_out=0.4,xin=2.2222222222222223,xout=3.0

1915 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.4,delta_out=0.0,xin=2.3333333333333335,xout=2.666666666666667

1920 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.4,delta_out=0.2,xin=2.3333333333333335,xout=2.8333333333333335

1925 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.4,delta_out=0.4,xin=2.3333333333333335,xout=3.0

1930 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.6,delta_out=0.0,xin=2.4444444444444446,xout=2.666666666666667

1935 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.6,delta_out=0.2,xin=2.4444444444444446,xout=2.8333333333333335

1940 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.6,delta_out=0.4,xin=2.4444444444444446,xout=3.0

1945 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.8,delta_out=0.0,xin=2.5555555555555554,xout=2.666666666666667

1950 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.8,delta_out=0.2,xin=2.5555555555555554,xout=2.8333333333333335

1955 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=0.8,delta_out=0.4,xin=2.5555555555555554,xout=3.0

1960 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.0,delta_out=0.0,xin=2.6666666666666665,xout=2.666666666666667

1965 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.0,delta_out=0.2,xin=2.6666666666666665,xout=2.8333333333333335

1970 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.0,delta_out=0.4,xin=2.6666666666666665,xout=3.0

1975 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.2,delta_out=0.2,xin=2.7777777777777777,xout=2.8333333333333335

1980 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.2,delta_out=0.4,xin=2.7777777777777777,xout=3.0

1985 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.4,delta_out=0.4,xin=2.888888888888889,xout=3.0

1990 no. graph's alpha=0.5,beta=0.1,gamma=0.4,delta_in=0.0,delta_out=0.0,xin=2.666666666666667,xout=3.0

1995 no. graph's alpha=0.5,beta=0.1,gamma=0.4,delta_in=0.2,delta_out=0.0,xin=2.966666666666667,xout=3.0

2000 no. graph's alpha=0.5,beta=0.2,gamma=0.3,delta_in=0.0,delta_out=0.0,xin=2.428571428571429,xout=3.0

2005 no. graph's alpha=0.5,beta=0.2,gamma=0.3,delta_in=0.2,delta_out=0.0,xin=2.6571428571428575,xout=3.0

2010 no. graph's alpha=0.5,beta=0.2,gamma=0.3,delta_in=0.4,delta_out=0.0,xin=2.885714285714286,xout=3.0

2015 no. graph's alpha=0.5,beta=0.3,gamma=0.2,delta_in=0.0,delta_out=0.0,xin=2.25,xout=3.0

2020 no. graph's alpha=0.5,beta=0.3,gamma=0.2,delta_in=0.2,delta_out=0.0,xin=2.425,xout=3.0

2025 no. graph's alpha=0.5,beta=0.3,gamma=0.2,delta_in=0.4,delta_out=0.0,xin=2.6,xout=3.0

2030 no. graph's alpha=0.5,beta=0.3,gamma=0.2,delta_in=0.6,delta_out=0.0,xin=2.7749999999999995,xout=3.0

2035 no. graph's alpha=0.5,beta=0.3,gamma=0.2,delta_in=0.8,delta_out=0.0,xin=2.95,xout=3.0

2040 no. graph's alpha=0.5,beta=0.4,gamma=0.1,delta_in=0.0,delta_out=0.0,xin=2.111111111111111,xout=3.0

2045 no. graph's alpha=0.5,beta=0.4,gamma=0.1,delta_in=0.2,delta_out=0.0,xin=2.2444444444444445,xout=3.0

2050 no. graph's alpha=0.5,beta=0.4,gamma=0.1,delta_in=0.4,delta_out=0.0,xin=2.3777777777777778,xout=3.0

2055 no. graph's alpha=0.5,beta=0.4,gamma=0.1,delta_in=0.6,delta_out=0.0,xin=2.5111111111111106,xout=3.0

2060 no. graph's alpha=0.5,beta=0.4,gamma=0.1,delta_in=0.8,delta_out=0.0,xin=2.6444444444444444,xout=3.0

2065 no. graph's alpha=0.5,beta=0.4,gamma=0.1,delta_in=1.0,delta_out=0.0,xin=2.7777777777777777,xout=3.0

2070 no. graph's alpha=0.5,beta=0.4,gamma=0.1,delta_in=1.2,delta_out=0.0,xin=2.911111111111111,xout=3.0

Experiment-2's graph types for Xin=Xout:

In experiment-2, each 5 graph's types are same but graphs are different from each other;

because they are random graphs.

 But for showing graphs types,

we are going to show one graph type from each similar 5 graph's types.

For example, Here, we skip showing 1 no.,2 no.,3 no.,4 no. graph's type because they are similar to 5 no. graph's type. We represent 5 no graph's type behalf of 1 no.,2 no.,3 no.,4 no. graph's type.

5 no. graph's alpha=0.1,beta=0.5,gamma=0.4,delta_in=0.4,delta_out=1.6,xin=3.0,xout=3.0

10 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.0,delta_out=0.0,xin=2.111111111111111,xout=2.111111111111111

15 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.2,delta_out=0.2,xin=2.1555555555555554,xout=2.1555555555555554

20 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.4,delta_out=0.4,xin=2.1999999999999997,xout=2.1999999999999997

25 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.6,delta_out=0.6,xin=2.2444444444444445,xout=2.2444444444444445

30 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=0.8,delta_out=0.8,xin=2.2888888888888888,xout=2.2888888888888888

35 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.0,delta_out=1.0,xin=2.3333333333333335,xout=2.3333333333333335

40 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.2,delta_out=1.2,xin=2.3777777777777778,xout=2.3777777777777778

45 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.4,delta_out=1.4,xin=2.4222222222222225,xout=2.4222222222222225

50 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.6,delta_out=1.6,xin=2.466666666666667,xout=2.466666666666667

55 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=1.8,delta_out=1.8,xin=2.5111111111111115,xout=2.5111111111111115

60 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.0,delta_out=2.0,xin=2.5555555555555554,xout=2.5555555555555554

65 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.2,delta_out=2.2,xin=2.5999999999999996,xout=2.5999999999999996

70 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.4,delta_out=2.4,xin=2.6444444444444444,xout=2.6444444444444444

75 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.6,delta_out=2.6,xin=2.6888888888888887,xout=2.6888888888888887

80 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=2.8,delta_out=2.8,xin=2.7333333333333334,xout=2.7333333333333334

85 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.0,delta_out=3.0,xin=2.7777777777777777,xout=2.7777777777777777

90 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.2,delta_out=3.2,xin=2.8222222222222224,xout=2.8222222222222224

95 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.4,delta_out=3.4,xin=2.8666666666666667,xout=2.8666666666666667

100 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.6,delta_out=3.6,xin=2.911111111111111,xout=2.911111111111111

105 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=3.8,delta_out=3.8,xin=2.9555555555555557,xout=2.9555555555555557

110 no. graph's alpha=0.1,beta=0.8,gamma=0.1,delta_in=4.0,delta_out=4.0,xin=3.0,xout=3.0

115 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.0,delta_out=0.0,xin=2.25,xout=2.25

120 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.2,delta_out=0.2,xin=2.3499999999999996,xout=2.3499999999999996

125 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.4,delta_out=0.4,xin=2.4499999999999997,xout=2.4499999999999997

130 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.6,delta_out=0.6,xin=2.55,xout=2.55

135 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=0.8,delta_out=0.8,xin=2.65,xout=2.65

140 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.0,delta_out=1.0,xin=2.75,xout=2.75

145 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.2,delta_out=1.2,xin=2.8499999999999996,xout=2.8499999999999996

150 no. graph's alpha=0.2,beta=0.6,gamma=0.2,delta_in=1.4,delta_out=1.4,xin=2.9499999999999997,xout=2.9499999999999997

155 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.0,delta_out=0.0,xin=2.428571428571429,xout=2.428571428571429

160 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.2,delta_out=0.2,xin=2.6,xout=2.6

165 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.4,delta_out=0.4,xin=2.7714285714285714,xout=2.7714285714285714

170 no. graph's alpha=0.3,beta=0.4,gamma=0.3,delta_in=0.6,delta_out=0.6,xin=2.942857142857143,xout=2.942857142857143

175 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.0,delta_out=0.0,xin=2.6666666666666665,xout=2.6666666666666665

180 no. graph's alpha=0.4,beta=0.2,gamma=0.4,delta_in=0.2,delta_out=0.2,xin=2.933333333333333,xout=2.933333333333333

185 no. graph's alpha=0.4,beta=0.5,gamma=0.1,delta_in=1.6,delta_out=0.4,xin=3.0,xout=3.0

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