9/9 points (100.00%)

Quiz, 9 questions

#### **Congratulations! You passed!**

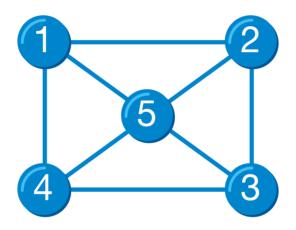
Next Item



1/1 points

1.

How many connected components do you see in this graph?



5

#### Correct

True. A graph that is connected by itself has exactly one connected component, consisting of the whole graph.

0

9/9 points (100.00%)

Quiz, 9 guestions	Ouiz.	9	auestions	
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What DOES "The Alternating algorithm is local" mean?					
	The Alternating algorithm is efficient only of you are running it on your local machine				
	With every node in the graph performing some rewiring decisions is based solely on the structure of its neighbourhood.				
Corre	act				
	you are 100% right				
	There is a bar named "The alternating algorithm" not far away				
<b>~</b>	1/1 points				
3.					
What is	the right definition of a stochastic graph?				
	The graph which exists with certain probability				
	A graph where for each vertex the sum of weights of all the outgoing edges is equal to one				
<b>Corre</b> True	ect . There is no way to trick you!				
	A graph where the sum of all edges' weights is equal to one				

9/9 points (100.00%)

Quiz, 9 questions

4

S	What conditions should THE GRAPH satisfy FOR ITS UNIQUE STATIONARY DISTRIBUTION TO EXIST?					
	Tick the true variants					
	Graph is Stochastic					
	<b>Correct</b> True. This is the necessary(необходимое) condition					
	There is a path from every node to every node					
	Correct True. You are absolutely right					
	The greatest common divider of all the cycle lengths is 1					
	<b>Correct</b> True. This is the necessary(необходимое) condition					
	Graph by itself is one connected component					
	Un-selected is correct					

# PageRank and Recent Advances Quiz, 9 questio

0%)

ık a	ind Recent Advances	9/9 points (100.0
ns	5. The stationary distribution at a vertex is related:	
	Tick the true variants	
	To the amount of time a random walker spends visiting that vertex.	
	Correct	
	True. This is a correct answer.	
	To the probability of getting to a certain vertex afte	r
	quite a big amount of steps.	
	Correct	
	True. You are learning really fast	
	A probability to get there after the first step	
	Un-selected is correct	

9/9 points (100.00%)

Quiz, 9 questions

6.

In the Page Rank Formula

$$PR(p_i) = \frac{1-d}{N} + d\sum_{p_j \in \Gamma(p_i)} \frac{PR(p_j)}{L(p_j)}$$

what meaning does the fraction below have?

$$\frac{1-d}{N}$$

- There is a probability for every page to be chosen if a random surfer doesn't get bored
- There's a probability for every page to be chosen after a random surfer gets bored

#### Correct

Yep. You quickly grasp the essence

9/9 points (100.00%)

Quiz, 9 questions

7.

What type of edges does a taste graph have?

$\bigcirc$	Both types			
	Undirected edges			
0	Directed edges			
Correct Correct, the taste graph is an oriented graph.				
<b>~</b>	1/1 points			
8. The tas	ste graph is partly stochastic?			
	If you take only the vertices of the same type from a taste graph then you will receive a stochastic graph			
	If you take only the edges of the same type from a taste graph then you will receive a stochastic graph			
<b>Corr</b> Corr	ect rect statement			
	If you take only the edges of the same type and only vertices of the same type you will receive a stochastic graph			

9/9 points (100.00%)

Quiz, 9 questions

9.

Under the weight function  $\omega_{eta}$  graph G is a stochastic graph because

- It transforms weights of all the edges in a way that sum of all of them becomes equal to one
- It forces all the edges to have the same type
- For each vertex sum of weights of all the outgoing edges is equal to one

#### Correct

True. There is no way to trick you!

