

NPTEL

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Courses » Joy of computing using Python



Announcements

Course

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Unit 14 - Week 12



Register for Certification exam

Course outline

How to access the portal

Week 1: Introduction

Week 2: Introduction to Python

Week 3: Cool Ideas (Part 1)

Week 4: Cool Ideas (Part 2)

Week 5: Cool Ideas (Part 3)

Week 6: Cool Ideas (Part 4)

Week 7: Cool Ideas(Part 5)

Week 8: Cool Ideas(Part 6)

Week 9: Cool Ideas(Part 7)

Week 10: Cool Ideas(Part 8)

Week 11

Week 12

Page Rank How does
Google Work ? Part 01

Assignment 12

The due date for submitting this assignment has passed. Due on 2019-04-24, 23:59 IS1

Assignment submitted on 2019-04-24, 19:06 IST

1) What is PageRank?

1 point

- PageRank is an algorithm used to rank nodes in a network.
- PageRank is an algorithm used to rank nodes only based on their in-degree.
- PageRank is an algorithm used to rank nodes only based on their out-degree.
- Both B and C

Yes, the answer is correct.

Score: 1

Accepted Answers:

PageRank is an algorithm used to rank nodes in a network.

2) State True or False: 3n+1 problem is also called Collatz conjecture. 1 point

- True
- False

Yes, the answer is correct.

Score: 1

Accepted Answers:

True

3) State True or False.

1 point

The sequence based on 3n+1 problem will always reach 1.

- True
- False

Yes, the answer is correct.

Score: 1

Accepted Answers:

True

4) What is the sequence obtained according 3n+1 algorithm for n=9?

1 point

- 28,14,7,22,11,34,17,26,13,40,20,10,5,16,8,4,2,1
- 28,14,7,22,11,34,52,26,13,40,20,10,5,16,8,4,2,1
- 28,14,7,22,11,17,52,26,13,40,20,10,5,16,8,4,2,1
- 28,14,7,22,11,34,17,52,26,13,40,20,10,5,16,8,4,2,1

019	Joy of computing using Python Unit 14 - Week 12	
Page Rank -	Yes, the answer is correct. Score: 1	
Google Work ? -	Accepted Answers:	
Part 02	28,14,7,22,11,34,17,52,26,13,40,20,10,5,16,8,4,2,1	
Page Rank - How does Google Work ? -	5) Consider the following statements:	1 point
Part 03	a) Random Walk method requires lesser number of iterations to calculate accurate PageRank	cas
Page Rank - How does Google Work ? - Part 04	compare to Points Distribution method. b) Points Distribution method requires lesser number of iterations to calculate accurate PageRar compare to Random Walk method	f
	Statement a is correct	7
Page Rank - How does Google Work ? -	Statement b is correct	>
Part 05	None of the above	
Page Rank - How does	Yes, the answer is correct. Score: 1	in
Google Work ? - Part 06	Accepted Answers: None of the above	g^{+}
Page Rank -	GVIn Dandam Walk mathed of page reak algorithm at each iteration	4 mains
How does Google Work ? - Part 07	In Random Walk method of page rank algorithm, at each iteration The nodes are traversed by choosing one of the out links of a given node randomly.	1 point
	The nodes are traversed by choosing one of the in links of a given node.	
Page Rank - How does	The nodes are traversed in a random fashion	
Google Work ? - Part 08	The nodes are traveresed by choosing the first out link of a given node.	
O Page Rank -	Yes, the answer is correct.	
How does	Score: 1	
Google Work ? - Part 09	Accepted Answers: The nodes are traversed by choosing one of the out links of a given node randomly.	
Page Rank - How does	7) In the web graph, nodes are the web pages. What are the edges?	1 point
Google Work ? - Part 10	Network Connections	
O Page Rank -	Links to other web pages	
How does Google Work?- Part 11	URLs	
	None of the above	
Page Rank -	Yes, the answer is correct. Score: 1	
How does Google Work? - Part 12	Accepted Answers: Links to other web pages	
O Page Rank -		
How does Google Work?-	8) In the point distribution method of page rank algorithm, at each iteration, each node shares it pagerank value by -	1 point
Page Rank -	 Randomly choosing one of its outgoing link and sharing all its pagerank value to the nocconnected to that link. 	de
How does	Dividing its pagerank value equally to all the outgoing links.	
Google Work ? - Part 14	Generating a random pagerank value and then dividing it equally among the outgoin	g links
Page Rank - How does Google Work ? - Part 15	equally. None of the above.	
	Yes, the answer is correct.	
	Score: 1	
Page Rank - How does Google Work ? -	Accepted Answers: Dividing its pagerank value equally to all the outgoing links.	
Part 16	9) In random walk method, what is the next step when a sink node is encountered in the	1 point
Conjecture -	underlying graph?	
Part 01	A random node is chosen out of all the given nodes.	
	The node with maximum number of incoming links is chosen.	

- CollatzConjecture -Part 02
- JOC Conclusion
- Programming Assignment-1: Holes
- Programming Assignment-2: Smallest Palindrome
- Programming Assignment-3: Letters
- Quiz : Assignment 12
- Week 12Feedback Form

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Interaction Session

- The node with maximum number of outgoing links is chosen.
- None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

A random node is chosen out of all the given nodes.

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