

NPTEI

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Courses » The Joy of Computing using Python



Announcements

Course

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JOCWiki

Unit 14 - Week 12



Course outline

How to access the portal

Pre-requisite assignment

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 2018-10-27, 23:59 IS

Assignment submitted on 2018-10-27, 07:21 IST

- 1) Which one of the following graphs is required to calculate page rank?
- 1 point

1 point

- Simple graph
- Directed graph
- Any of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

Directed graph

2) How many steps would n=9 would take to converge according to Collatz conjecture? (Convergence in Collatz conjecture is when n becomes 1)

(For Example: If n=4, number of steps it takes to converge is 2.)

- 22
- 25
- 21
- **19**

Yes, the answer is correct.

Score: 1

Accepted Answers:

19

3) In the web graph, nodes are the web pages. What are the edges?

1 point

- Network Connections
- **URLs**
- Links to other web pages
- None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

Links to other web pages

4) Consider the following statements:

1 point

a) Google PageRank works by hiring experts from different domains who maintain a database of the

2, 1:06 PM	The Joy of Computing using Python Unit 14 - Week 12	
Page Rank -	rankings of all web pages.	
How does Google Work? -	b) Google PageRank works by using web graph and random walk algorithm.	
Part 02	Only Statement a is correct	
Page Rank - How does	Only Statement b is correct	
Google Work ? -	O None of the above	
Part 03	Yes, the answer is correct.	
Page Rank -	Score: 1	f
How does Google Work ? - Part 04	Accepted Answers: Only Statement b is correct	y
Page Rank -		oint
How does	shares it pagerank value by -	•
Google Work ? - Part 05	 Randomly choosing one of its outgoing link and sharing all its pagerank value to the node connected to that link. 	in
Page Rank - How does	Dividing its pagerank value equally to all the outgoing links.	
Google Work ? - Part 06	 Generating a random pagerank value and then dividing it equally among the outgoing link equally. 	g
Page Rank -	None of the above.	
How does Google Work ? - Part 07	Yes, the answer is correct. Score: 1	
Page Rank -	Accepted Answers:	
How does	Dividing its pagerank value equally to all the outgoing links.	
Google Work ? - Part 08	6) State True or False:	oint
	A sink node is the one which has no incoming links.	,,,,,
Page Rank - How does	O True	
Google Work ? -	True False	
Part 09		
Page Rank -	Yes, the answer is correct.	
How does Google Work? -	Score: 1	
Part 10	Accepted Answers: False	
Page Rank -		
How does Google Work? -		oint
Part 11	underlying graph?	
Page Rank -	A random node is chosen out of all the given nodes.	
How does	The node with maximum number of incoming links is chosen.	
Google Work ? - Part 12	The node with maximum number of outgoing links is chosen.	
	None of the above.	
Page Rank - How does	Yes, the answer is correct.	
Google Work ? -	Score: 1	
Part 13	Accepted Answers:	
Page Rank - How does	A random node is chosen out of all the given nodes.	
Google Work ? -	8) State True or False: 1 pc	oint
Part 14	3m+1 problem is also called Collatz conjecture.	
Page Rank -	True	
How does	○ False	
Google Work ? - Part 15		
Page Rank -	Yes, the answer is correct. Score: 1	
How does	Accepted Answers:	
Google Work ? - Part 16	True	
1 411 10		oin4
	σ_{I} which is the sequence obtained according sith Lagorithm 101 H=12?	oint

- CollatzConjecture -Part 01
- CollatzConjecture -Part 02
- JOC Conclusion
- Programming Assignments-1: Sentence
- Programming Assignment-2: Letters
- Programming Assignment-3: Email ID
- Week 12
 Feedback : The
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- Quiz : Assignment 12

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- 0 12, 6, 3, 10, 5, 16, 8, 4, 2, 1
- 0 12, 6, 3, 2, 1
- 0 12, 6, 5, 16, 8, 4, 2, 1
- None of the above.

Yes, the answer is correct.

Score: 1

Accepted Answers:

12, 6, 3, 10, 5, 16, 8, 4, 2, 1



- Bigger number corresponds to more number of steps for convergence.
- Smaller number corresponds to less number of steps for convergence.
- O Both a & b
- None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

None of the above

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End

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