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rohit3888kumar@gmail.com ~

NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » The Joy of Computing using Python (course)



Course outline How does an **NPTEL** online course work? Week 0 Week 1 Week 2 Week 3 week 4 Week 5 Week 6 Week 7 Week 8 Week 9 Week 10

Week 11

Week 12: Assignment 12

The due date for submitting this assignment has passed.

Due on 2021-10-20, 23:59 IST.

Assignment submitted on 2021-10-18, 21:08 IST

1) In the point distribution method of page rank algorithm, at each iteration, each node	1 point
shares its pagerank value by	

- Randomly choosing one of its outgoing links and sharing all its pagerank value to the node connected to that link.
- Dividing its pagerank value equally to all the outgoing links.
- Dividing its pagerank value randomly to all the outgoing links.
- Dividing its pagerank value to all the outgoing links with the value given being proportional to their outdegree.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Dividing its pagerank value equally to all the outgoing links.

- 2) In the random walk method, what is the next step when a sink node is encountered in *1 point* the underlying graph?
 - random node is chosen out of all the given nodes.
 - The node with the maximum number of incoming links is chosen.
 - The node with the maximum number of outgoing links is chosen.
 - The process stops at this stage.

Yes, the answer is correct.

Score: 1

Accepted Answers:

10/21/21, 9:01 PM Week 12 Page Rank -How does Google Work? - Part 01 (unit? unit=245&lesson=246) Page Rank -How does Google Work? - Part 02 (unit? unit=245&lesson=247) 🔵 Page Rank -How does Google Work? - Part 03 (unit? unit=245&lesson=248) Page Rank -How does Google Work? - Part 04 (unit? unit=245&lesson=249) Page Rank -How does Google Work? - Part 05 (unit? unit=245&lesson=250) Page Rank -How does Google Work? - Part 06 (unit? unit=245&lesson=251)

Page Rank -

How does

Page Rank -How does

Page Rank -

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Page Rank -

How does

Google Work?

- Part 07 (unit?

Google Work?

- Part 08 (unit? unit=245&lesson=253)

Google Work? - Part 09 (unit?

unit=245&lesson=254)

unit=245&lesson=252)

random node is chosen out of all the given nodes. 3) According to the Google Page rank algorithm, the rank of a page depends on: A. 1 point Number of pages it is referring to. Number of pages it is referring to. Number of pages referring to it. Rank of pages it is referring to. Rank of pages referring to it. No. the answer is incorrect. Score: 0 Accepted Answers: Rank of pages referring to it. 4) Comment on the purpose of the following command. 1 point sorted(p.items(),key=operator.itemgetter(1)) Sort the items of dictionary, p by key Sort the items of dictionary, p by values Sort the elements of list, p by values Sort the items of Tuple, p by values Yes, the answer is correct. Score: 1 Accepted Answers: Sort the items of dictionary, p by values 5) Which of the following is not true about Collatz Conjecture? 1 point If the previous term is even, the next term is one half the previous term. If the previous term is odd, the next term is 3 times the previous term. If the previous term is odd, the next term is 3 times the previous term plus 1. No matter what value of n, the sequence will always reach 1. Yes, the answer is correct. Score: 1 Accepted Answers: If the previous term is odd, the next term is 3 times the previous term. 6) The sequence based on 3n+1 problem will always reach 1 point True False Yes, the answer is correct. Score: 1 Accepted Answers: True 7) What is the sequence obtained according to the 3m+1 algorithm for m=9? 1 point 28,14,7,22,11,34,17,52,26,13,40,20,10,5,16,8,4,2,1 28,14,7,22,11,34,52,26,13,40,20,10,5,16,8,4,2,1

Google Work ? - Part 10 (unit?	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	
unit=245&lesson=255) Page Rank - How does Google Work ? - Part 11 (unit?	Yes, the answer is correct. Score: 1 Accepted Answers: 28,14,7,22,11,34,17,52,26,13,40,20,10,5,16,8,4,2,1	
unit=245&lesson=256) Page Rank - How does Google Work ? - Part 12 (unit?	 8) Consider the following statements: a) Random Walk method requires a lesser number of iterations to calculate accurate PageRank as compared to Points Distribution method. b) Points Distribution method requires lesser number of iterations to calculate accurate PageRank as compare to Random Walk method 	1 point
unit=245&lesson=257) Page Rank - How does Google Work ? - Part 13 (unit? unit=245&lesson=258)	Statement a is correct Statement b is correct Statement b is correct Yes, the answer is correct. Score: 1	
Page Rank - How does Google Work ? - Part 14 (unit? unit=245&lesson=259)	Accepted Answers: Statement b is correct 9) In the web graph, nodes are the web pages. What are the edges? Network Connections	1 point
Page Rank - How does Google Work ? - Part 15 (unit? unit=245&lesson=260)	Links to other web pages URLs None of the above Yes, the answer is correct.	
Page Rank - How does Google Work ? - Part 16 (unit? unit=245&lesson=261)	Score: 1 Accepted Answers: Links to other web pages 10) How many iterations does the number, 75 take to converge in Collatz Conjecture?	1 point
Collatz Conjecture - Part 01 (unit? unit=245&lesson=262)	14151312	
Collatz Conjecture - Part 02 (unit? unit=245&lesson=263)	Yes, the answer is correct. Score: 1 Accepted Answers:	
ODC Conclusion (unit? unit=245&lesson=264)		
• Week 12 Feedback		

Form: The Joy of Computing

using Python (unit? unit=245&lesson=265)

Quiz: Week

12:

Assignment

12

(assessment? name=338)

Week 12:

Programming

Assignment 1 -

Candies

(/noc21_cs75/progassignment?

name=339)

Week12:

Programming

Assignment 2 -

Suitcases

(/noc21_cs75/progassignment?

name=340)

Week12:

Programming

Assignment 3 -

Game of

Strengths

(/noc21_cs75/progassignment?

name=341)

Text Transcripts

Download Videos

Live Session

October 10 Programming test - Session 1 (10AM to 11AM)

October 10 Programming test - Session 2 (8PM to 9PM)