X

Unit 14 - Week 12

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

Assignment 12

The due date for submitting this assignment has passed.

Due on 2020-04-22, 23:59 IST.

Assignment submitted on 2020-04-22, 23:20 IST

1) In web graph, on which we perform Google page ranking ***1 point***

- (●) Web pages are the nodes and hyperlinks are the edges
- ( ) Hyperlinks are the nodes and web pages are the edges
- ( ) Both hyperlinks and web pages are nodes
- ( ) Both hyperlinks and web pages are edges

Yes, the answer is correct.
Score: 1
Accepted Answers:
Web pages are the nodes and hyperlinks are the edges

2) In pagerank algorithm on a directed network, we randomly move from a node A to ***1 point***

- ( ) a random node which is pointing to A
- (●) a random node which A is pointing to
- ( ) a random node out of all the nodes which are either pointing to A or the nodes which A is pointing to
- ( ) none of the above

Yes, the answer is correct.
Score: 1
Accepted Answers:

Week 11

Week 12

- Page Rank - How does Google Work ? - Part 01 (unit?unit=218&lesson=219)
- Page Rank - How does Google Work ? - Part 02 (unit?unit=218&lesson=220)
- Page Rank - How does Google Work ? - Part 03 (unit?unit=218&lesson=221)
- Page Rank - How does Google Work ? - Part 04 (unit?unit=218&lesson=222)
- Page Rank - How does Google Work ? - Part 05 (unit?unit=218&lesson=223)
- Page Rank - How does Google Work ? - Part 06 (unit?unit=218&lesson=224)
- Page Rank - How does Google Work ? - Part 07 (unit?unit=218&lesson=225)
- Page Rank - How does Google Work ? - Part 08 (unit?unit=218&lesson=226)
- Page Rank - How does Google Work ? - Part 09 (unit?unit=218&lesson=227)
- Page Rank - How does Google Work ?

a random node which A is pointing to

3) Which of thew following statements is FALSE? ***1 point***

- Barbell graph is connected
- In both complete graph and cycle graph, every node has the same degree
- In any star graph having more than 2 nodes, there are at least 2 nodes having the same degree
- All the above statements are true

Yes, the answer is correct.
Score: 1
Accepted Answers:
All the above statements are true

4) Which of the following statements choose a random node from a graph G? ***1 point***

- random.choice(G)
- random.node(G.nodes())
- random.choice(G.nodes())
- none of the above

Yes, the answer is correct.
Score: 1
Accepted Answers:
none of the above

5) The function networkx.pagerank(G) returns ***1 point***

- a list
- a set
- a dictionary
- a numpy array

Yes, the answer is correct.
Score: 1
Accepted Answers:
a dictionary

6) Choose one network from following which is not directed. ***1 point***

- citation network
- Follower-followee network of Twitter
- Supply chain network
- Friendship network of Facebook

No, the answer is incorrect.
Score: 0
Accepted Answers:
Friendship network of Facebook

7) Which of the following functions is used to make a directed graph? ***1 point***

- networkx.DiGraph
- networkx.digraph
- networkx.Digraph
- networkx.diGraph

- Part 10 (unit?unit=218&lesson=228)
Page Rank - How does Google Work ? - Part 11 (unit?unit=218&lesson=229)
Page Rank - How does Google Work ? - Part 12 (unit?unit=218&lesson=230)
Page Rank - How does Google Work ? - Part 13 (unit?unit=218&lesson=231)
Page Rank - How does Google Work ? - Part 14 (unit?unit=218&lesson=232)
Page Rank - How does Google Work ? - Part 15 (unit?unit=218&lesson=233)
Page Rank - How does Google Work ? - Part 16 (unit?unit=218&lesson=234)
Collatz Conjecture - Part 01 (unit?unit=218&lesson=235)
Collatz Conjecture - Part 02 (unit?unit=218&lesson=236)
JOC Conclusion (unit?unit=218&lesson=237)
Quiz : Assignment 12 (assessment?name=288)
Programming Assignments-1: Sentence

Yes, the answer is correct.
Score: 1

Accepted Answers:
networkx.DiGraph

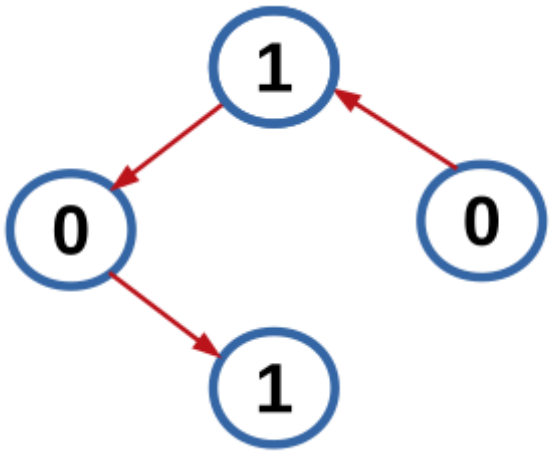
8) The output of G.out_edges(nodename) is **1 point**

- List of lists
- List of dictionaries
- List of vertices
- List of tuples

Yes, the answer is correct.
Score: 1

Accepted Answers:
List of tuples

9) What happens when a gold coin distribution game is played on the following network? **1 point**



- One node ends up having all coins and the game stops
- The game stops after some iterations but one node does not end up having all the coins
- The game enters an infinite loop
- None of the above

Yes, the answer is correct.
Score: 1

Accepted Answers:
One node ends up having all coins and the game stops

10) The number of gold coins in the gold coin distribution game **1 point**

- keeps increasing in every subsequent iteration
- keeps decreasing in every subsequent iteration
- keeps varying randomly in every subsequent iteration
- remains constant

No, the answer is incorrect.
Score: 0

Accepted Answers:
remains constant

(/noc20_cs35/progassignment?name=323)

- Programming Assignment-2: Letters (/noc20_cs35/progassignment?name=324)
- Programming Assignment-3: Email ID (/noc20_cs35/progassignment?name=325)
- Week 12 Feedback (unit?unit=218&lesson=326)

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