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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

Week 11

Week 12

Assignment 12

The due date for submitting this assignment has passed. **Due on 2020-04-22, 23:59 IST.**
As per our records you have not submitted this assignment.

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

No, the answer is incorrect.
Score: 0

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

No, the answer is incorrect.
Score: 0

Accepted Answers:

a random node which A is pointing to

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

- Barbell graph is connected
- In both complete graph and cycle graph, every node has the same degree

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unit=218&lesson=219)

- 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

No, the answer is incorrect.
Score: 0

Accepted Answers:
All the above statements are true

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unit=218&lesson=220)

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

No, the answer is incorrect.
Score: 0

Accepted Answers:
none of the above

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Google Work ? -
Part 04 (unit?
unit=218&lesson=222)

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

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

No, the answer is incorrect.
Score: 0

Accepted Answers:
a dictionary

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Google Work ? -
Part 06 (unit?
unit=218&lesson=224)

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

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Part 08 (unit?
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7) Which of the following functions is used to make a directed graph? **1 point**

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

No, the answer is incorrect.
Score: 0

Accepted Answers:
networkx.DiGraph

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Part 10 (unit?
unit=218&lesson=228)

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

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

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Part 11 (unit?
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How does
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Part 12 (unit?
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How does
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Part 13 (unit?
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How does
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Part 14 (unit?
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Page Rank -
How does
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Part 15 (unit?
unit=218&lesson=233)

Page Rank -
How does
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Part 16 (unit?
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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
(/noc20_cs35/progassignment?
name=323)

Programming
Assignment-2:
Letters
(/noc20_cs35/progassignment?
name=324)

Programming
Assignment-3:
Email ID
(/noc20_cs35/progassignment?
name=325)

List of tuples

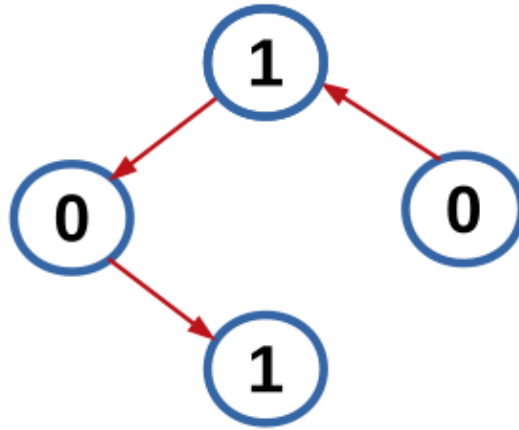
No, the answer is incorrect.

Score: 0

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

No, the answer is incorrect.

Score: 0

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

Week 12
Feedback (unit?
unit=218&lesson=326)

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