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



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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 12: Assignment

The due date for submitting this assignment has passed.

Due on 2023-10-18, 23:59 IST.

Assignment submitted on 2023-10-18, 09:50 IST

- A node with no incoming edges.
- A node with maximum incoming edges.
- A node with maximum outgoing edges.
- A node with no outgoing edges.

Yes, the answer is correct.

Score: 1

Accepted Answers:

1) What is a sink?

A node with no outgoing edges.

- 2) What should we do when encountering a sink in the case of page rank algorithm? 1 point
 - Stop the algorithm.
 - Start with the last node.
 - Randomly choose a node from all nodes.
 - Randomly choose a node from neighbor nodes.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Randomly choose a node from all nodes.



3) In the page rank algorithm

1 point

1 point

Week 9 ()

Week 10 ()

Week 11 ()

Week 12 ()

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Session July 2023 ()

- We randomly travel from node to node without any relationship.
- We randomly travel from node to neighbor node.
- The maximum visited node will be the leader.
- B and C
- A and C

Yes, the answer is correct.

Score: 1

Accepted Answers:

B and C

- 4) If we perform the page rank algorithm on the web as a graph, which of the following *1 point* is true?
 - Websites are nodes and hyperlinks in websites are edges.
 - Hyperlinks in websites are nodes and websites are edges.
 - Websites will work as nodes and edges.
 - Hyperlinks will work as nodes and edges.

Yes, the answer is correct.

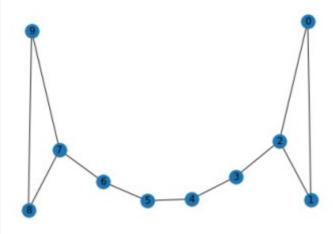
Score: 1

Accepted Answers:

Websites are nodes and hyperlinks in websites are edges.

5) Identify the type of graph:

1 point



- Triangle Graph
- Directed Graph
- Barbell Graph
- Wheel graph

Yes, the answer is correct.

Score: 1

Accepted Answers:

Barbell Graph

6) Which of the following python function will return random floating point number between 0 and 1?



random.float()

random.randomfloat() random.frandom() random.random()	
Yes, the answer is correct. Score: 1 Accepted Answers: random.random()	
7) What will be the G.out_degree(3) for the following graph(G)?	1 point
4	
5	
○ 3	
○ 6	
Yes, the answer is correct. Score: 1 Accepted Answers:	
8) In the page rank algorithm the leader is decided by?	1 point
A node(person) with maximum number of outgoing edges.	
A node(person) with maximum number of incoming edges.	
A node(person) which is visited maximum times.Can not decide.	
Yes, the answer is correct. Score: 1	
Accepted Answers: A node(person) which is visited maximum times.	
9) Which of the following is true about directed graphs?	1 point
 One can come back and forth from one node to another using a single edge. One can only go forward from one node to another using a single edge. One can go to any node from one node using one edge. None of the above. 	<u>^</u>

Yes, the answer is correct.

Score: 1

Accepted Answers:

One can only go forward from one node to another using a single edge.

10) What will be the output of the following code?

1 point

word = 'Hey there!'
print(list(word))

- ('Hey', 'there', '!')
- ['Hey', 'there', ' ', '!']
- ['H', 'e', 'y', ' ', 't', 'h', 'e', 'r', 'e', '!']
- ['H', 'e', 'y', 't', 'h', 'e', 'r', 'e', '!']

Yes, the answer is correct.

Score: 1

Accepted Answers:

['H', 'e', 'y', ' ', 't', 'h', 'e', 'r', 'e', '!']

