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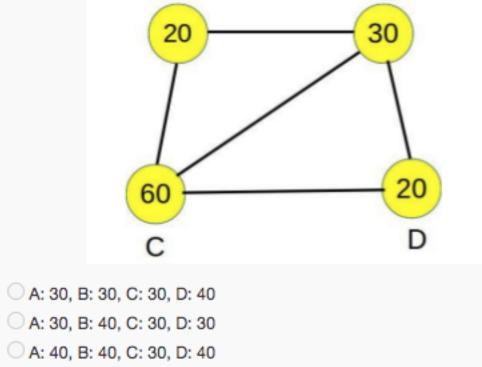
## NPTEL » Social Networks

## Unit 8 - Week 6 Course outline Assignment 6 How does an NPTEL online The due date for submitting this assignment has passed. course work? As per our records you have not submitted this assignment. Week 0 Web graph is Week 1 Undirected and acyclic Directed and acyclic Week 2 Undirected and cyclic Week 3 Directed and can be cyclic/acyclic No, the answer is incorrect. Week 4 Score: 0 Accepted Answers: Directed and can be cyclic/acyclic Week 5 Week 6 Which of the following is true? Lecture 75: The Web Graph Lecture 76: Collecting the Both the algorithms rank the nodes in descending order of their importance but give different results. Web Graph Lecture 77: Equal Coin Both the algorithms rank the nodes in descending order of their importance and give the same result. Distribution No, the answer is incorrect. Lecture 78: Random Walk Score: 0 Coin Distribution Accepted Answers: Both the algorithms rank the nodes in descending order of their importance and give the same result. Lecture 79: Google Page Ranking Using Web Graph Lecture 80: Implementing Which of the following is true? PageRank Using Points Distribution Method-1 Both the algorithms converge. None of the algorithms converge. Lecture 81: Implementing PageRank Using Points Algorithm A converges while Algorithm B does not converge. Distribution Method-2 Algorithm B converges while Algorithm A does not converge. Lecture 82: Implementing No, the answer is incorrect. PageRank Using Points Score: 0 Distribution Method-3 Accepted Answers: Both the algorithms converge. Lecture 83: Implementing PageRank Using Points 4) Which of the following is the most efficient way of obtaining the big web graph containing billions of nodes Distribution Method-4 Searching for every single web page on Internet Lecture 84: Implementing PageRank Using Random Random walk Walk Method -1 Breadth First Traversal Lecture 85: Implementing depth First Traversal PageRank Using Random No, the answer is incorrect. Walk Method -2 Score: 0 Accepted Answers: Lecture 86: DegreeRank Random walk versus PageRank Quiz : Assignment 6 Week 6 Feedback number of atoms in the explored universe. Week 7 25 24 Week 8 23 Week 9 22 No, the answer is incorrect. Week 10 Score: 0 Accepted Answers: 23 Week 11 Week 12 In link analysis, teleportation is the process of jumping to a node . . . . . . . . chosen randomly when there are no out-edges Assignment Solutions

Due on 2020-03-11, 23:59 IST. 1 point Consider algorithm 1 to be equal sharing coin distribution game and algorithm 2 to be random dropping coin distribution game. 1 point Algorithm 1 ranks the nodes in ascending order of their importance while algorithm 2 ranks the nodes in descending order of importance. Algorithm 1 ranks the nodes in descending order of their importance while algorithm 2 ranks the nodes in ascending order of importance. Consider algorithm 1 to be equal sharing coin distribution game and algorithm 2 to be random dropping coin distribution game. 1 point 1 point 5) Let log<sub>2</sub> (10) = 3.3 and the number of atoms in the explored universe be 10^80. Then, pick the largest number of nodes from the below 1 point given options such that the number of possible graphs (undirected and without loops) on that many nodes is smaller or equal to the 1 point having highest in-degree when there are no in-edges having lowest out-degree when there are no out-edges chosen randomly when there are no in-edges No, the answer is incorrect. Score: 0 Accepted Answers: chosen randomly when there are no out-edges Consider the graph shown in the following Figure. The number written in each circle represents the number of gold coins possessed 1 point

by the corresponding node. Choose the number of gold coins every node has in the next iteration, according to the equal sharing gold '

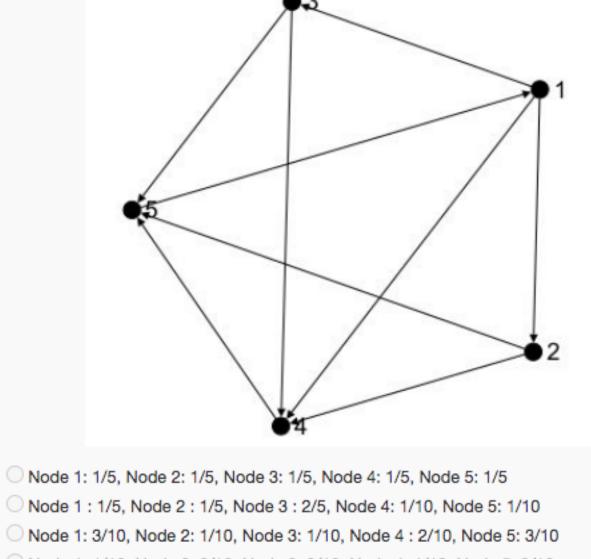
coins' game. В



A: 30, B: 40, C: 50, D: 10 No, the answer is incorrect. Score: 0

Accepted Answers: A: 30, B: 40, C: 30, D: 30

8) For what values of pageranks of the nodes in the following Figure does the process converge, i.e. pageranks of the nodes do not change after this configuration?



Node 1: 3/10, Node 2: 1/10, Node 3: 1/10, Node 4: 2/10, Node 5: 3/10

Node 1: 1/10, Node 2: 3/10, Node 3: 2/10, Node 4: 1/10, Node 5: 3/10 No, the answer is incorrect.

Score: 0 Accepted Answers: Node 1: 3/10, Node 2: 1/10, Node 3: 1/10, Node 4: 2/10, Node 5: 3/10

9) Which of the following kinds of nodes might create a problem in the random walk (drop) gold coins' distribution game?

Nodes having a very high indegree. Nodes having a very high outdegree. Nodes having zero indegree. Nodes having zero outdegree.

Nodes having zero outdegree. 10) Which of the following factors have an impact on the PageRank?

No, the answer is incorrect.

Accepted Answers:

Score: 0

Score: 0

The total number of inbound links to a page of a web site. The subject matter of the site providing the inbound link to a page of a web site.

The text used to describe the inbound link to a page of a web site. The number of outbound links on the page that contains the inbound link to a page of a website. No, the answer is incorrect.

Accepted Answers: The total number of inbound links to a page of a web site.