University of Illinois Springfield

My Blac   👤 Steve Halder   ▼

🏠   Module 13   **Review Test Submission: Module 13 Quiz**

Review Test Submission: Module 13 Quiz

User	Steve Halder
Course	CSC 385 D: Data Structures & Algorithms (Spring 2020)
Test	Module 13 Quiz
Started	5/6/20 2:10 AM LATE
Submitted	5/6/20 2:13 AM LATE
Due Date	4/27/20 11:00 PM
Status	Completed
Attempt Score	10 out of 10 points
Time Elapsed	3 minutes
Results Displayed	Submitted Answers, Correct Answers, Feedback

Question 1
2 out of 2 points

How does Dijkstra's algorithm ensure that the next node visited is always the one with the minimum cost?

Selected Answer: ✅ The algorithm stores the paths yet to be explored in a priority queue.

Correct Answer: ✅ The algorithm stores the paths yet to be explored in a priority queue.

Question 2
2 out of 2 points

The number of edges coming into a vertex in a graph is known as:

Selected Answer: ✅ the indegree value

Correct Answer: ✅ the indegree value

Question 3
2 out of 2 points

Which of the following shortest path algorithms will work **only** with a DAG? Check all that apply.

Selected Answers: ✅ c. topological sort

Correct Answers: ✅ c. topological sort

Question 4
2 out of 2 points

Which of the following graph algorithms is designed specifically to accept

negative edge weights? Check all that apply.

Selected Answers: ✅ c. Bellman-Ford algorithm

Correct Answers: ✅ c. Bellman-Ford algorithm

Question 5   2 out of 2 points

Which of the following algorithms would be the most efficient if you need to find the shortest path from one vertex to another vertex in a weighted graph, given that the graph contains no negative edge costs?

Selected Answer: ✅ Dijkstra's algorithm

Correct Answer: ✅ Dijkstra's algorithm

Tuesday, May 12, 2020 11:26:45 AM CDT

← **OK**