Quiz 5

Correct!

Due May 10 at 11:59pm Points 8 Questions 8

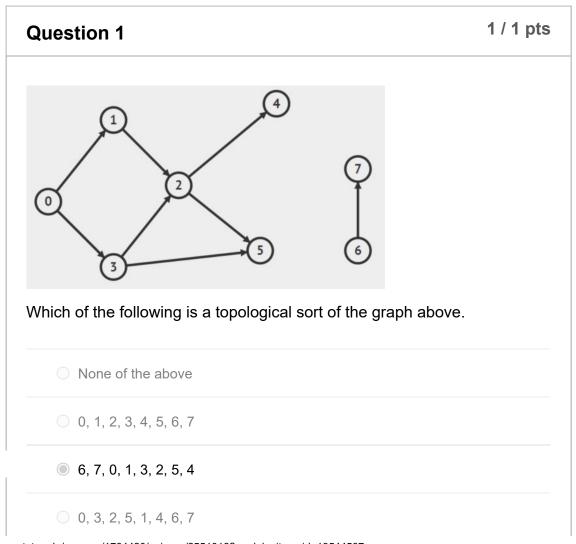
Available May 1 at 11:59pm - May 10 at 11:59pm 9 days Time Limit 15 Minutes

This quiz was locked May 10 at 11:59pm.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	13 minutes	7 out of 8

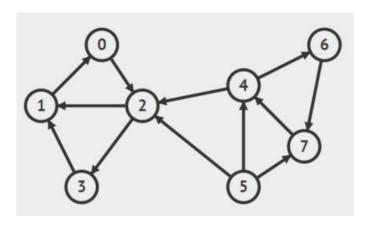
Score for this quiz: **7** out of 8 Submitted May 10 at 11:01pm This attempt took 13 minutes.



7, 6, 5, 2, 4, 3, 1, 0

Question 2

1 / 1 pts



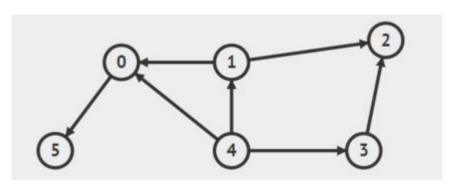
How many strongly connected components are there in the graph above?

Correct!

- 3
- 0 1
- 0 4
- 2
- 0

Question 3

1 / 1 pts



A Breadth First Search Algorithm has been implemented using a queue data structure. One possible order of visiting the vertices of the graph above is:

\cap	5	4,	1	2
υ,	υ,	4,	Ι,	_

Correct!

- 0 4, 0, 1, 3, 5, 2
- 1, 0, 5, 2, 4, 3
- 0 4, 1, 0, 5, 2, 3

Question 4 1 / 1 pts

Given two vertices s and t in a connected graph G, which of the two traversals, BFS and DFS can be used to find if there is a path from s to t?

Only DFS

Correct!

- Both BFS and DFS
- Neither BFS nor DFS
- Only BFS

Question 5 1 / 1 pts

Let G be a graph with n vertices and m edges. Assume that the graph is represented by an adjacency matrix. What is the tightest upper bound on the running time of DFS performed on G?

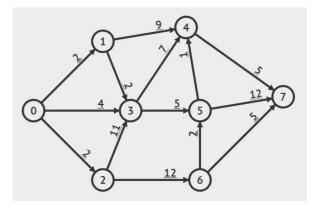
- O(m)
- O(m+n)

Correct!

- O(n^2)
- O(mn)
- O(n)

Question 6

0 / 1 pts



In the graph above, the shortest path from vertex 0 to vertex 7 has weight of

- 21
- orrect Answer
- **15**
- 19

ou Answered

Correct!

16

1 / 1 pts **Question 7** In the above graph, what is the weight of the MST? 21 0 20 **17** 18 **19**

Question 8 In an undirected weighted graph the heaviest edge is never in the MST. True False

Quiz Score: 7 out of 8