Quiz Submissions - Graphs Homework Quiz

X

Chork Hieng (username: gt9182iu)

Retaken Attempt 2

Written: May 7, 2022 9:55 PM - May 7, 2022 10:00 PM

Submission View

Your quiz has been submitted successfully.

Show All Questions

Undirected graphs (small)

All the questions in this section refer to this (undirected) graph:



Question 1 Correct on previous attempt(s)

2 / 2 points

How may vertices does the graph have?

Answer: 4

Question 2 Correct on previous attempt(s)

2 / 2 points

How may edges does the graph have?

Answer: 3

Question 3 Correct on previous attempt(s)

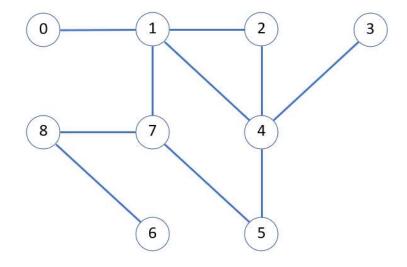
2 / 2 points

Which vertices are adjacent to vertex 1?

0, 2, and 3	
2	
0 and 2	
0	
Question 4 Correct on previous attempt(s)	2 / 2 points
Which vertices are adjacent to vertex 3?	
2	
None	
2, 1, and 0	
2 and 1	
Question 5 Correct on previous attempt(s)	3 / 3 points
Which of these is a possible order in which the vertices could be visited during search starting at vertex 2? (Select all possible correct answers.)	g a depth-first
2310	
2130	
2103	

Which of these is a possible order in which the vertices could be visited during a be search starting at vertex 2? (Select all possible correct answers.)	readth-first
2310	
2130	
2103	
Question 7 Correct on previous attempt(s)	2 / 2 points
This graph has at least one cycle.	
True	
False	
Question 8 Correct on previous attempt(s)	2 / 2 points
Depth-first search can be used to find the shortest path from some given vertex to reachable vertex.	every
True	
False	
Question 9 Correct on previous attempt(s)	2 / 2 points
Breadth-first search can be used to find the shortest path from some given vertex reachable vertex.	to every
True	
False	

All the questions in this section refer to this (undirected) graph:



ts

Question 12 Correct on previous attempt(s)

How many vertices have a degree of 4?

2 / 2 points

() 3

Answer: 10

2

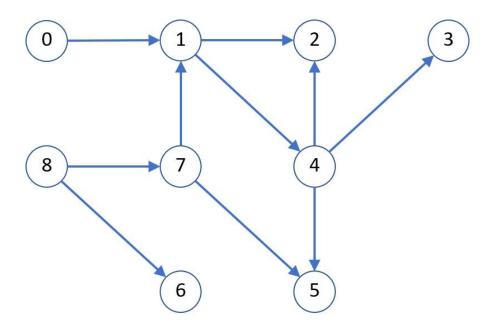
1

Which of these is a possible order in which the vertices could be visited during a breadth-first search starting at vertex 6? (Select all possible correct answers.)

- 687514023
- 687543210
- 687150243
- 687105243
- 687104235

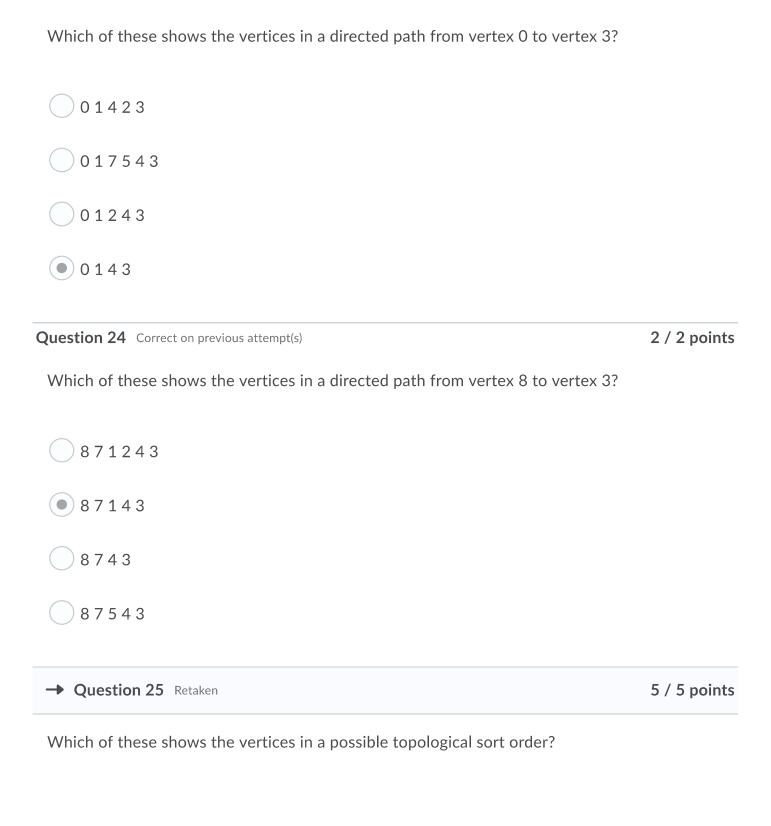
Directed graphs (large)

All the questions in this section refer to this directed graph:



Answer: 9	
Question 18 Correct on previous attempt(s)	2 / 2 points
How may edges does the graph have?	
Answer: 10	
→ Question 19 Retaken	0 / 2 points
What is the indegree of vertex 1?	
Answer: 0	
→ Question 20 Retaken	2 / 2 points
What is the outdegree of vertex 1?	
Answer: 2	
Question 21 Correct on previous attempt(s)	2 / 2 points
What is the indegree of vertex 4?	
Answer: 1	
→ Question 22 Retaken	2 / 2 points
What is the outdegree of vertex 4?	
Answer: 3	
Question 23 Correct on previous attempt(s)	2 / 2 points

How may vertices does the graph have?



087164253		
018675423		
086714523		
870143526		
801243756		

Attempt Score: 59 / 61 - 96.72 %

Overall Grade (highest attempt): 59 / 61 - 96.72 %

Done