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SECTIONS

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CSCI 2270 - Gupta, Trivedi, Zagrodzki - CS2: Data Structures

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Started on	Monday, 8 April 2019, 4:03 PM
State	Finished
Completed on	Monday, 8 April 2019, 4:22 PM
Time taken	19 mins 22 secs
Grade	10.00 out of 10.00 (100%)

Question 1

Correct

Mark 1.25 out of 1.25

What is the maximum number of edges present in a simple undirected graph with 7 vertices?

Select one:

☐ a. None of these

☒ b. 21

☐ c. 6

☐ d. 14

☐ e. 49

Your answer is correct.

Question 2

Correct

Mark 1.25 out of 1.25

Which of the following is true?

Select one:

☐ a. A complete graph can be a disconnected graph.

☐ b. A connected graph always has an edge between each pair of vertices.

☐ c. A simple path can pass through a vertex multiple times.

☒ d. A cycle begins and ends at the same vertex.

Your answer is correct.

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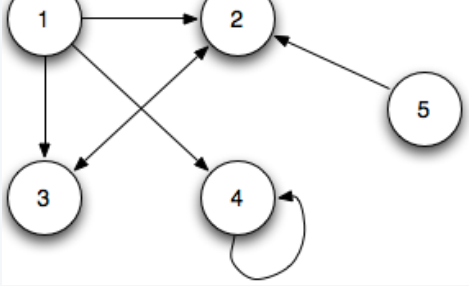
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Correct

Mark 1.25 out of 1.25



Which of the following is a correct adjacency list representation of the graph?

Select one:

☐ a.

1 → 2 → 3 → 4 /

2

3 → 2 /

4 → 4 /

5 → 2 /

☐ b.

1 → 2 → 3 → 4 /

2 → 3 /

3 → 2 /

4

5 → 2 /

☐ c.

1 → 2 → 3 → 4 /

2 → 3 /

3

4 → 4 /

5 → 2 /

☒ d.

1 → 2 → 3 → 4 /

2 → 3 /

3 → 2 /

4 → 4 /

5 → 2 /

✓

Your answer is correct.

←

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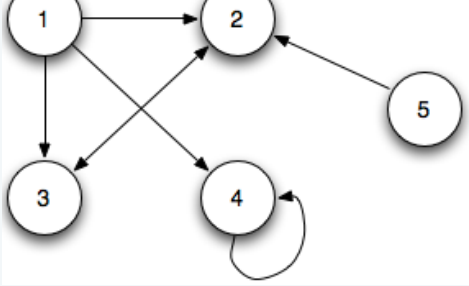
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Correct

Mark 1.25 out of 1.25



Which one of the following is a correct adjacency matrix representation of the graph?

Select one:

☐ a.

	1	2	3	4	5
1	F	T	T	T	F
2	F	F	T	F	F
3	F	T	F	F	F
4	F	F	F	F	F
5	F	T	F	F	F

☐ b.

	1	2	3	4	5
1	F	T	T	T	F
2	T	F	F	F	F
3	F	T	F	F	F
4	F	F	F	T	F
5	F	T	F	F	F

☒ c.

	1	2	3	4	5
1	F	T	T	T	F
2	F	F	T	F	F
3	F	T	F	F	F
4	F	F	F	T	F
5	F	T	F	F	F

☐ d.

	1	2	3	4	5
1	F	T	T	T	F
2	F	F	T	F	F
3	F	F	F	F	F
4	F	F	F	T	F
5	F	T	F	F	F

✓

Your answer is correct.

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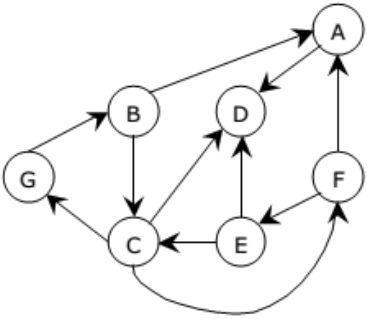
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Correct

Mark 1.25 out of 1.25



Node	Adjacency List
A	D
B	A C
C	G D F
D	----
E	C D
F	E A
G	B

Select one:

☐ a. A D

☐ b. B A C D G F E

☐ c. B C G F E D A

☒ d. B A D C G F E

Your answer is correct.

Question 6

Correct

Mark 1.25 out of 1.25

What is (are) the data structure(s) used for DFS and BFS?

Select one:

☐ a. queue and stack

☐ b. stack

☐ c. queue

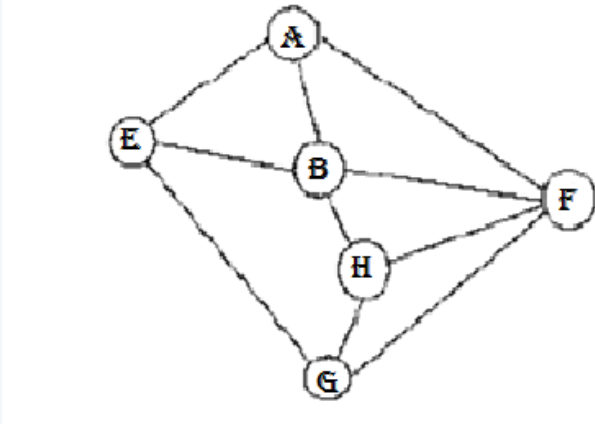
☒ d. stack and queue

Your answer is correct.

Question 7

Correct

Mark 1.25 out of 1.25



Consider the above graph.

Which of the following answers shows a valid DFS and BFS on the graph?

Select one:

☐ a. **DFS:** B H A G F E ; **BFS:** H B A E G F

☐ b. **DFS:** G H F B A E; **BFS:** H G E A B F




☒ c. **DFS:** G E A F B H; **BFS:** H B F G A E

☐ d. **DFS:** E A G F B H; **BFS:** H B A F G E

Your answer is correct.


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CU

Schedules



aagu5057 Guliani



Correct

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Select one:

☐ a. BFS




☐ b. DFS

☐ c. None of the above

☒ d. Both BFS and DFS

Your answer is correct.

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