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NPTEL

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Courses » Programming, Data structures and Algorithms using C

Announcements Course Ask a Question Progress

Unit 10 - Week 9 : Graph Traversal, Articulation Points, File I/O, Modular programming



Course outline

Assignment0

Week 1: Basic Programming Constructs

Week 2: Arrays, Pointers and Strings

Week 3: Functions, Time complexity

Week 4: Sorting and Searching Algorithms

Week 5: Structures, Dynamic Memory Allocation and ADTs

Week 6: Stacks, Queues, Heaps, Trees and Graphs

Week 7: Greedy Algorithms and Dynamic Programming

Week 8 : Hash Tables & Graph Algorithms

Week 9 : Graph Traversal, Articulation Points, File I/O, Modular programming

Graph Traversals :

Quiz 9

The due date for submitting this assignment has passed. **Due on 2018-04-11, 23:59 IST.**
As per our records you have not submitted this assignment.

1) Consider the graph given below: 1 point

If BFS is started from vertex A, the order in which the vertices are explored is (Assume that the neighbours are explored in the lexicographic order):

- ABCDEFG
- ABDCEFG
- ABCDGEF
- ABGDEFC

No, the answer is incorrect.

Score: 0

Accepted Answers:

ABCDGEF

2) For the graph in the above question, if DFS is started from vertex A, the order in which the vertices are explored is (Assume that the neighbours are explored in the lexicographic order): 1 point

- ABCDEFG
- ABDCEFG
- ABCDGEF
- ABGDEFC

No, the answer is incorrect.

Score: 0

Accepted Answers:

BFS,DFS and
Articulation
Points

- File I/O
- Modular Programming
- Quiz : Quiz 9
- Programming Assignment 9.1 : Cycle Detection
- Programming Assignment 9.2 : Bipartite Graph
- Programming Assignment 9.3 : DFS Traversal
- Week 9 Solutions

Help and FAQ

Interactive session with students

ABCDEFGF

3) The supporting data structures used by BFS and DFS routines are respectively: **1 point**

- Queue and Stack
- Stack and Queue
- Tree and Stack
- Queue and Tree

No, the answer is incorrect.

Score: 0

Accepted Answers:

Queue and Stack

4) DFS is a generalization of which of the following tree traversal techniques? **1 point**

- Inorder traversal
- Preorder traversal
- Postorder traversal
- Level order traversal

No, the answer is incorrect.

Score: 0

Accepted Answers:

Preorder traversal

5) Identify the correct topological ordering of the vertices of the following directed acyclic graph: **1 point**

- ABCDE
- AEBCD
- AECBD
- AEDBC

No, the answer is incorrect.

Score: 0

Accepted Answers:

AEBCD

6) Suppose a file is opened as follows: **1 point**

```
FILE *p=fopen("abc.txt","r");
```

If there is no file named 'abc.txt', what happens?

- Error is thrown at the compile time





Error is thrown at the runtime



Program abruptly terminates



The value NULL gets stored in p

No, the answer is incorrect.

Score: 0

Accepted Answers:

The value NULL gets stored in p

7) Initially file x.txt contains :

What are the contents of the file after the following snippet?

```
FILE *p=fopen("x.txt","w");
```

```
fprintf(p,"%c","\n");
```

```
fprintf(p,"%s","Great");
```



No, the answer is incorrect.

Score: 0

Accepted Answers:

8) Suppose in the previous question, we just modify the way the file is opened as follows:

```
FILE *p=fopen("x.txt","a");
```

What are the contents of the file at the end?



No, the answer is incorrect.

Score: 0

Accepted Answers:

9) When will feof(p) where p is of type FILE* return true?



When the file referred to by the file pointer p does not exists



When the file referred to by the file pointer p has been successfully deleted



1 point

1 point

1 point



When we are at the beginning of the file referred to by the file pointer p



When we have reached the end of the file referred to by the file pointer p

No, the answer is incorrect.

Score: 0

Accepted Answers:

When we have reached the end of the file referred to by the file pointer p



10)

What does the following code snippet do? (Assume both files y.txt and z.txt exists and they contain a list of numbers)

1 pc



Copies the content of y.txt onto z.txt and overwrites the contents of z.txt which were present earlier



Copies the content of y.txt onto z.txt and retains the contents of z.txt which were present earlier



Copies the content of z.txt onto y.txt and overwrites the contents of z.txt which were present earlier



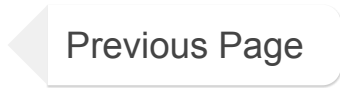
Copies the content of z.txt onto y.txt and retains the contents of z.txt which were present earlier

No, the answer is incorrect.

Score: 0

Accepted Answers:

Copies the content of y.txt onto z.txt and retains the contents of z.txt which were present earlier



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