DS Lab Quiz : Recursions

DS Lab Quiz : This quiz is based on Recursion and Polish notations

Question Prompt: 1

Total Points: 1

Which data structure is used in recursion?

- ☑ LIFO
- ☐ FIFO
- ☐ Queues
- ☐ Sturct

Question Prompt: 2

Total Points: 4

Points per answer: 2

Convert the expression ((A + B) * C - (D - E) ^ (F + G)) to equivalent Prefix and Postfix notations. Prefix Notation: _____ Postfix Notation: _____ Note : Your answer should contain all letters in IUPPERCASE and DO NOT give SPACE between any character or operator.

Question Prompt: 3

Total Points: 1

During prefix to postfix conversion, when do you think the pop() function will be invoked?

- ☐ When the scanned character is an operand
- ☐ When the scanned character is an operator
- ☐ When stack is empty
- ☑ When the scanned character is operator or '\0' (null).

Question Prompt: 4

Total Points: 1

What is the order of precedence when two exponential operators occur sequentially ?

- ☐ Left to right
- ☐ Ignore and scan for next operator
- ☑ Right to left
- ☐ Depends on the previous operator scanned.

Question Prompt: 5

Total Points: 1

Which is the easiest access method for any data structure?

- ☑ Sequential access
- ☐ Random access
- ☐ Indexed access
- ☐ Hashed Indexed access

Question Prompt: 6

Total Points: 1

When "PRINT" command is issued by multiple systems to a common printer in a LAN, which structure is used to maintain the files to be printed?

- ☐ Stack
- ☑ Queues
- ☐ Nearest file first
- ☐ Shortest file first

Question Prompt: 7

Total Points: 1

Given a scenario : You will visit google.com in your browser, then visit yahoo.com and then netflix.com. All this in the same tab in the same browser. Now, the browser can allow you to click "BACK" button and "FORWARD" button to move from one url to another. Which data structure do you think is more relevant and applicable in this concept?

- ☐ Stack
- ☐ Queue
- ☑ Linked List
- ☐ Tree