## **ADS CCEE Practice Quiz**

Total points 15/20



The respondent's email (**pratyushmahajan06@gmail.com**) was recorded on submission of this form.

0 of 0 points

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Untitled Section 15 of 20 points

X	What is the result of the following code? *	0/1
	String s1 = "Java"; String s2 = "Java";  StringBuilder sb1 = new StringBuilder();  sb1.append("Ja").append("va");  System.out.println(s1 == s2);  System.out.println(s1.equals(s2));  System.out.println(sb1.toString() == s1);  System.out.println(sb1.toString().equals(s1));	
0	true is printed out exactly once.	
•	true is printed out exactly twice.	×
0	true is printed out exactly three times.	
0	true is printed out exactly four times.	
Corr	rect answer	
•	true is printed out exactly three times.	
×	Here is an infix expression: 4 + 3*(6*3-12). Suppose that we are using the usual stack algorithm to convert the expression from infix to postfix notation. The maximum number of symbols that will appear on the stack AT ONE TIME during the conversion of this expression?	*0/1
×	usual stack algorithm to convert the expression from infix to postfix notation. The maximum number of symbols that will appear on the stack	*0/1
×	usual stack algorithm to convert the expression from infix to postfix notation. The maximum number of symbols that will appear on the stack AT ONE TIME during the conversion of this expression?	*0/1
×	usual stack algorithm to convert the expression from infix to postfix notation. The maximum number of symbols that will appear on the stack AT ONE TIME during the conversion of this expression?  1 2	*0/1 ×
0	usual stack algorithm to convert the expression from infix to postfix notation. The maximum number of symbols that will appear on the stack AT ONE TIME during the conversion of this expression?  1 2	
<ul><li></li></ul>	usual stack algorithm to convert the expression from infix to postfix notation. The maximum number of symbols that will appear on the stack AT ONE TIME during the conversion of this expression?  1 2 3	
<ul><li></li></ul>	usual stack algorithm to convert the expression from infix to postfix notation. The maximum number of symbols that will appear on the stack AT ONE TIME during the conversion of this expression?  1 2 3 4	

```
X What is the functionality of the following piece of code?
                                                                                     0/1
     public void function(Node node)
     {
      if(size == 0)
         head = node;
       else
         Node temp, cur;
         for(cur = head; (temp = cur.getNext())!=null; cur = temp);
         cur.setNext(node);
       size++;
     Inserting a node at the beginning of the list
                                                                                    X
     Deleting a node at the beginning of the list
      Inserting a node at the end of the list
     Deleting a node at the end of the list
Correct answer
    Inserting a node at the end of the list
```

<b>~</b>	If the size of the array used to implement a circular queue is MAX_SIZE.  How rear moves to traverse inorder to insert an element in the queue?	*1/1
0	rear=(rear%1)+MAX_SIZE	
•	rear=(rear+1)%MAX_SIZE	<b>✓</b>
0	rear=rear+(1%MAX_SIZE)	
0	rear=rear%(MAX_SIZE+1)	
×	Consider a single linked list where F and L are pointers to the first and last elements respectively of the linked list. The time for performing which of the given operations depends on the length of the linked list?  F->1->2->3->L	*0/1
<ul><li></li></ul>	Delete the first element of the list  Interchange the first two elements of the list	×

Correct answer

Delete the last element of the list

Delete the last element of the list

Add an element at the end of the list

<b>✓</b>	Consider the following doubly linked list: head-1-2-3-4-5-tail. What will be the list after performing the given sequence of operations?  Node temp = new Node(6,head,head.getNext()); Node temp1 = new Node(0,tail.getPrev(),tail); head.setNext(temp); temp.getNext().setPrev(temp); tail.setPrev(temp1); temp1.getPrev().setNext(temp1);	*1/1
<ul><li></li></ul>	head-0-1-2-3-4-5-6-tail head-1-2-3-4-5-0-tail head-6-1-2-3-4-5-0-tail head-0-1-2-3-4-5-tail	<b>✓</b>
✓ ·	Consider a binary tree with n nodes, where each node can have at most two children. The height of the tree is defined as the maximum number of edges between the root node and any leaf node. Which of the following statements is true regarding the height h of this binary tree?	*1/1
•	The height of the tree is always equal to n-1.   The height of the tree can be greater than or equal to n-1.   The height of the tree is always equal to $log_2(n)$ .   The height of the tree can be greater than or equal to $log_2(n)$ .	<b>✓</b>

✓ What is the functionality of the following code? Choose the most \*1/1 appropriate answer. public int function() if(head == null) return Integer.MIN\_VALUE; int var: Node temp = head; while(temp.getNext() != head) temp = temp.getNext(); if(temp == head) var = head.getItem(); head = **null**; return var; } temp.setNext(head.getNext()); var = head.getItem(); head = head.getNext(); return var; } Return data from the end of the list Returns the data and deletes the node at the end of the list Returns the data from the beginning of the list Returns the data and deletes the node from the beginning of the list

✓ What is the functionality of the following piece of code? Select the most \*1/1 appropriate.

- Print success if a particular element is not found
- Print fail if a particular element is not found
- Print success if a particular element is equal to 1
- Print fail if the list is empty

~	What is the functionality of the following piece of code? *	1/1
	<pre>public class Test {   public static void main(String[] args) {     String str = null;     switch (str) { // #1     case "null":     System.out.println("null string"); // #2     break;   } }</pre>	
0	This program results in a compiler error in statement #1.	
0	This program results in a compiler error in statement #2.	
•	This program results in throwing a NullPointerException.	<b>✓</b>
0	This program prints the following: null string.	
<b>~</b>	In worst case, the number of comparison need to search a singly linked list of length n for a given element is	*1/1
0	log n	
0	n/2	
0	log2n-1	
•	n	<b>✓</b>

×	A circularly linked list is used to represent a Queue. A single variable p is used to access the Queue. To which node should p point such that both the operations enQueue and deQueue can be performed in constant time?	*0/1
0	rear node	
0	front node	
•	not possible with a single pointer	×
0	node next to front	
Corre	ect answer	
•	rear node	
	The following three are known to be the preorder, inorder and postorder sequences of a binary tree. But it is not known which is which.  MBCAFHPYK  KAMCBYPFH  MABCKYFPH  Pick the true statement from the following.  I and II are preorder and inorder sequences, respectively  I and III are preorder and postorder sequences, respectively  II is the inorder sequence, but nothing more can be said about the other two sequences	*1/1
•	II and III are the preorder and inorder sequences, respectively	<b>✓</b>

```
✓ What is the functionality of the following piece of code? *
                                                                                  1/1
    public int function(int data) {
    Node temp = head;
    int var = 0;
    while(temp != null) {
    if(temp.getData() == data) {
    return var;
    var = var + 1;
    temp = temp.getNext();
    return Integer.MIN_VALUE;
    Find and delete a given element in the list
     Find and return the given element in the list
Find and return the position of the given element in the list
     Find and insert a new element in the list
✓ What are the main applications of tree data structure?
                                                                                  1/1
    Manipulate hierarchical data
    Make information easy to search
    Manipulate sorted lists of data
    Router algorithms
    Form of a multi-stage decision-making, like Chess Game.
    As a workflow for compositing digital images for visual effects
    1, 2, 3, 4 and 6
   1, 2, 3, 4 and 5
    1, 3, 4, 5 and 6
1, 2, 3, 4, 5 and 6
```

✓ The concatenation of two list can performed in O(1) time. Which of the following variation of linked list can be used?	*1/1
Singly linked list	
Oubly linked list	
Circular doubly linked list	<b>✓</b>
Array implementation of list	

```
What is the functionality of the following piece of code?
                                                                             1/1
public void function(Object item)
 Node temp=new Node(item,trail);
 if(isEmpty())
    head.setNext(temp);
   temp.setNext(trail);
 }
 else
    Node cur=head.getNext(); while(cur.getNext()!=trail)
      cur=cur.getNext();
    cur.setNext(temp);
 size++;
Insert at the front end of the dequeue
Insert at the rear end of the dequeue
Fetch the element at the rear end of the dequeue
Fetch the element at the front end of the dequeue
```

~	The minimum number of fields with each node of doubly linked list is *	1/1
0	1	
0	2	
•	3	<b>✓</b>
0	4	
	Consider the following operation performed on a stack of size 5.	*1/1
·	Push(1);	,, .
	Pop(); Push(2);	
	Push(3);	
	Pop();	
	Push(4);	
	Pop();	
	Pop(); Push(5);	
	After the completion of all operation, the number of elements present in stack is?	
•	1	<b>✓</b>
0	2	
0	3	
0	4	

```
public class Test
{
    public static void main(String[] args) {
        String str = null;
        System.out.println(str.valueOf(10));
    }
}

Which of the following statements correctly describes the behavior of this program?

This program will result in a compiler error.

This program will throw a NullPointerException.

This program will print 10 in the console.

This program will print null in the console.
```

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