

# 18CSC350T- Comprehension Test 1

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\* Required

## LINEAR DATA STRUCTURES

Which of the following is a linear data structure? \*

- ☒ Array
- ☐ AVL Trees
- ☐ Binary Trees
- ☐ Graphs



When a pop() operation is called on an empty queue, what is the condition called? \*

- ☐ Overflow
- ☒ Underflow
- ☐ Syntax Error
- ☐ Garbage Value

Which of the following data structures allow insertion and deletion from both ends? \*

- ☐ Stack
- ☐ Queue
- ☒ Dequeue
- ☐ Strings

Which of the following can be done with LinkedList? \*

- ☒ Implementation of Stacks and Queues
- ☐ Implementation of Binary Trees
- ☐ Implementation of data structures that can simulate dynamic arrays
- ☐ All the above

What is the information, which a  
LinkedList's Node must store?

\*

- ☐ The address of the next node if it exists
- ☐ The value of the current node
- ☒ Both address of the next node and the value of the current node
- ☐ None of the above

Which of the following is not the type of  
queue?

\*

- ☐ Priority Queue
- ☒ Single-ended Queue
- ☐ Double-ended Queue
- ☐ Ordinary Queue

What is the output of the following code snippet? \*

```
void solve() {  
    stack<int> s;  
    s.push(1);  
    s.push(2);  
    s.push(3);  
    for(int i = 1; i <= 3; i++) {  
        cout << s.top() << " ";  
        s.pop();  
    }  
}
```

- ☒ 3 2 1
- ☐ 1 2 3
- ☐ 3
- ☐ 1

Which one of the following is an application of queue data structure \*

- ☐ When a resource is shared among multiple consumers
- ☒ When data is shared asynchronously
- ☐ Load Balancing
- ☐ All the above

What will be the output of the following code snippet?

\*

```
void solve() {  
    deque<int> dq;  
    for(int i = 1; i <= 5; i++) {  
        if(i % 2 == 0) {  
            dq.push_back(i);  
        }  
        else {  
            dq.push_front(i);  
        }  
    }  
    for(auto x: dq) {  
        cout << x << " ";  
    }  
    cout << endl;  
}
```

- ☒ 1 2 3 4 5
- ☐ 5 4 3 2 1
- ☐ 1 3 5 2 4
- ☐ 5 3 1 2 4

What is the disadvantage of array data structure? \*

- ☒ The amount of memory to be allocated should be known beforehand.
- ☐ Elements of an array can be accessed in constant time.
- ☐ Elements are stored in contiguous memory blocks.
- ☐ Multiple other data structures can be implemented using arrays.

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