ADS

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* Indicates required question

MCQ

The Average case occur in linear search algorithm *

- (●) When Item is somewhere in the middle of the array.
- ( ) When Item is not in the array at all.
- ( ) When Item is the last element in the array.
- ( ) When Item is the last element in the array or is not there at all.

The Worst case occur in linear search algorithm when *

- ( ) Item is somewhere in the middle of the array,
- ( ) Item is not in the array at all
- ( ) Item is the last element in the array,
- ( ) Item is the last element in the array or is not there at all

Which one of the following algorithm is NOT an example of Divide and conquer technique *

- Quick Sort
- Merge Sort
- Bubble Sort
- Binary Search

The advantage of link list over array is *

- 1. Link list can grow and shrink in size during the time
- 2. Less space is required for storing elements
- Both 1 and 2 are correct
- None of the above

Stack can be represented using *

- Arrays
- Arrays or linked list
- Only linked list
- None of the above

The inorder traversal of some binary tree produces the sequence DBEAFC, and the postorder traversal of the same tree produced the sequence DEBFCA. Which of the following is a correct preorder traversal sequence? *

- DBAECF
- ABEDFC
- ABDECF
- None of the above

Which of the following is not an operation of queue, assuming that queue has items `Q` and `X`? *

- empty(Q)
- deque(Q,X)
- enque(Q,X)
- push(Q,X)

We can efficiently reverse a string using a *

- linear queue
- circular queue
- stack
- doubly linked list

The five items: A, B, C, D and E are pushed in a stack, one after the other starting from A. The stack is popped four times and each element is inserted in a queue. Then two elements are deleted from the queue and pushed back on the stack. Now one item is popped from the stack. The popped item is. *

- B
- C
- D
- E

Which of the following is not the required condition for binary search algorithm? *

- The list must be sorted
- There should be the direct access to the middle element in any sublist
- There must be mechanism to delete and/or insert elements in list
- None of the above

When new data are to be inserted into a data structure, but there is no available space; this situation is usually called *

- underflow
- overflow
- houseful
- saturated

The situation when in a linked list START=NULL is *

- housefull
- saturated
- overflow
- underflow

Which of the following data structure is linear type? *

- Strings
- Lists
- Queues
- All of the above

The complexity of merge sort algorithm is *

- O(n)
- O(log n)
- O(n^2)
- O(n log n)

Consider the following operation performed on a stack of size 5. *

Push(1);

Pop();

Push(2);

Push(3);

Pop();

Push(4);

Pop();

Pop();

Push(5);

After the completion of all operation, get the total number of element present in stack is

- 1
- 2
- 3
- 4
- 5

Arrays are best data structures *

- for relatively permanent collections of data
- for the size of the structure and the data in the structure are constantly changing
- for both of above situation
- for none of above situation

Linked lists are best suited *

- for relatively permanent collections of data
- for the size of the structure and the data in the structure are constantly changing
- for both of above situation
- for none of above situation

O(1) means computing time is *

- Constant
- Quadratic
- Linear
- Cubic

The postfix equivalent of prefix expression * + a b – c d is *

- a b + c d - *
- a b c d + - *
- a b + c d * -
- a b + - c d *

What is the result of compiling & running the following code? *

```
public class Test{
public static void main(String []args){
int [] a = new int[0];
System.out.println(a.length);
}
}
```

- ◯ 0
- ◯ Compilation error. Arrays can not be initialized to zero size
- ◯ Compilation error. It is a.length() not a.length
- ◯ None of the above

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