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71	72	73	74	75

## Question No. 68

Multiple Choice ( Select 1 out of 4 options, for the question below. )

In a hash table of size 10, where is element 7 placed?

## Options

- 6
- 7
- 8
- 17

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Question No: 70

Multiple Choice ( Select 1 out of 4 options, for the question below. )

What is the output of the code given below? Now, let us take up a small test. #include <stdio.h>

int main()

```
{  
    char ch = 'A';  
    printf("%d\n", ch);  
    return 0;  
}
```

Options

A

A'

65

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Question No. 72

Multiple Choice ( Select 1 out of 4 options, for the question below. )

The prefix of  $(A+B)^*(C-D)$  is

Options

- +AB\*(C-D)
- \*+ABCD
- \*+AB-CD
- \*AB+CD

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#### Question No: 74

Multiple Choice ( Select 1 out of 4 options, for the question below. )

Consider you have a stack whose elements in it are as follows.

5 4 3 2 << top

Where the top element is 2.

You need to get the following stack

6 5 4 3 2 << top

The operations that needed to be performed are (You can perform only push and pop):

#### Options

- Push(pop()), push(6), push(pop())
- Push(pop()), push(6)
- Push(pop()), push(pop()), push(6)
- Push(6)

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Question No: 79

Multiple Choice ( Select 1 out of 4 options, for the question below. )

What should be the load factor for separate chaining hashing?

Options

- 0.5
- 1
- 2
- 1.5

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**Question No. 77**

Multiple Choice ( Select 1 out of 4 options, for the question below. )

Where is the hash tree used?

Options

- in digital currency
- in sorting of large data
- in encryption of data
- for indexing in databases

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Question No: 80

Multiple Choice ( Select 1 out of 4 options, for the question below. )

Find the output of following pseudo code :

```
int main()
{
    int num = 8;
    printf ("%d %d", num << 1, num >> 1);
    return 0;
}
```

## Options

- 8 0
- 0 0
- 16 4
- Error : Can't Perform operation

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Question No. 76

Multiple Choice ( Select 1 out of 4 options, for the question below. )

With what data structure can a priority queue be implemented?

Options

- Array
- List
- Heap
- Tree

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Question No. 78

Multiple Choice ( Select 1 out of 4 options, for the question below. )

What will be the output of the following pseudo code?

```

Input m = 9, n = 6;
m = m + 1;
N = n - 1;
m = m + n
if (m > n)
print m
else
print n
  
```

Options

- 6
- 5
- 10
- 15

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Question No. 75

Multiple Choice ( Select 1 out of 4 options, for the question below. )

Convert the infix to postfix for  $A-(B+C)*(D/E)$ 

Options

- ABC+DE/-
- ABC-DE/-
- ABC-DE\*/-
- None of the above

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Question No: 65

Multiple Choice ( Select 1 out of 4 options, for the question below. )

If  $h$  is any hashing function and is used to hash  $n$  keys in to a table of size  $m$ , where  $n \leq m$ , the expected number of collisions involving a particular key  $x$  is :

Options

- less than 1
- less than  $n$ .
- less than  $m$ .
- less than  $n/2$ .

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## Question No. 73

Multiple Choice ( Select 1 out of 4 options, for the question below. )

6, 8, 4, 3, and 1 are inserted into a data structure in that order. An item is deleted using only a basic data structure operation. If the deleted item is a 1, the data structure cannot be a ?

## Options

- Queue
- Tree
- Stack
- Hash Table

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## Question No. 67

Multiple Choice ( Select 1 out of 4 options, for the question below. )

Find the output of the following pseudo-code if  $x=4$  and  $y=5$ :

```
Integer fun(int x, int y)
    if(x > 1)
        fun(x - 2, y + 2)
    end if
    print y
End function fun()
```

## Options

- 4 5 6
- 7 6 5
- 9 7 5
- 8 9 7

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Question No: 71  
1727613

Multiple Choice ( Select 1 out of 4 options, for the question below. )  
1727613  
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Time taken for addition of element in queue is  
202108128

Options:

- O(1)
- O(n)
- O(log n)
- None of these options

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Question No: 69

Multiple Choice ( Select 1 out of 4 options, for the question below. )

Which of the following is a widely used form of the hash tree?

Options

- B+ – tree
- T tree
- Htree
- Tiger tree hash

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Question No: 64

Multiple Choice ( Select 1 out of 4 options, for the question below. )

```
main()
{
    int x;
    if ( x > 4) printf( "Brinda");
    else if ( x > 10) printf( "Karthik");
    else if ( x > 21 ) printf(" Pradeep");
    else printf( "Sandeep");
}
```

What will be the value of x so that "Karthik" will be printed?

Options

- From 10 to 21
- From 11 to 21
- greater than 10
- none

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**Question No. 63**

Multiple Choice ( Select 1 out of 4 options, for the question below. )

Let the following circular queue can accommodate maximum six elements with the following data  
front = 2 rear = 4

queue = \_\_\_\_\_; L, M, N, \_\_\_\_\_

What will happen after ADD O operation takes place?

**Options**

- front = 2 rear = 5 queue = \_\_\_\_\_; L, M, N, O, \_\_\_\_\_
- front = 3 rear = 5 queue = L, M, N, O, \_\_\_\_\_
- front = 3 rear = 4 queue = \_\_\_\_\_; L, M, N, O, \_\_\_\_\_
- front = 2 rear = 4 queue = L, M, N, O, \_\_\_\_\_

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Question No: 66

Multiple Choice ( Select 1 out of 4 options, for the question below. )

Given only a single array of size 10 and no other memory is available. Which of the following operation is not feasible to implement (Given only push and pop operation)?

Options

- Push
- Pop
- Enqueue
- Returntop

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