

Quiz.

Ques

```
int a = 1;
int b = 2;
int c;
int d;
```

$c = ++b$

$d = a++$

$c++$

$b++$

$a++$

System.out (a + " " + b + " " + c)

Ques class C

```
int x = -1;
```

print (x >>> 29)

(x >>> 30)

(x >>> 31)

3) `public static void main (String[] args)`

`char x = 'x';`

`int i = 0`

`System.out.print (true ? x : 0);`

`System.out.print (false ? i : x);`

4) `Static void x (int n)`

`{
 if (n > 1)
 x (n/2);`

`System.out.print (n%2);`

what does function x do?

5) what is the T.C. of given below code

`for (var i = 0; i < n, i++)`

$i = 2$
 $\rightarrow O(\log n)$

int i, j, K = 0;

for (i = 0; i <= n, i++) {

for (j = 2; j <= n; j = j * 2) {

K = K + n/2;

}

}

Time Complexity $n^2 \log n$

Given 2D matrix find the maximum sum of hourglass

int arr[i][j] {

0 1 0 0 0 0

1 1 1 0 0 0

0 0 2 1 1 0

0 0 0 2 0 0

0 0 1 2 5 0

class D.

```
{  
    System.out.println(10*20 + "final  
                        Exam");  
    System.out.println("final exam" +  
                        10*20);  
}
```

300 final exam - final exam

public class Test

```
{  
    String S1 = "RAM";  
    S2 = "RAM";  
    S3 = "Shyam";  
    S4 = ABC
```

```
    println (S1 compare to (S2));  
    S1 compare to (S3))  
    S1 compare to S4) /
```


Class main {

Static int R = 5;

int C = 5;

Static int findMaxSum (int[][] mat)

{
if (R < 3 || C < 3)

return -1;

int max-sum = Integer.MIN-Value;

for (int i=0; i < R-2; i++)

{
for (int j=0; j < C-2; j++)

{
int sum = (mat[i][j] + mat[i][j+1] +
mat[i][j+2] + mat[i+1][j+1] +
mat[i+2][j] + mat[i+2][j+1] +
mat[i+2][j+2]);

max-sum = Math.max (max-sum, sum);

return max-sum;

}

Static public void main (String [] arg)

{ int [][] mat = {
 {1, 2, 3, 0, 0}
 {0, 0, 0, 0, 0}
 {2, 1, 4, 0, 0}
 {0, 0, 0, 0, 0}
 {1, 1, 0, 1, 0}}

int res = findMaxSum(mat);

if (res == -1)

System.out.println ("Not possible")

else.

System.out.println ("Maximum sum
 at hour glass = "
 + res);

}

• You have been give an integer.

$a = 64$. Your job is to find the longest sequence of its flip of a bit in its binary representation which of the following is the output.

For this problem statement?

Kruskal's Algorithm uses Greedy of
prim's algorithm uses DFS in
determining the MFT