



leno.java

You

Yesterday, 10:18 pm



OUTPUT

*****OUTPUT*****

Number of Paths : 14

```

public static void main(String[] args) {
    int A = 5;

    System.out.println("*****OUTPUT*****");
    ;
    System.out.println("Number of Paths : "
+numberOfPaths(A,A));
}
static int numberOfPaths(int m, int n)
{
    // Create a 2D table to store results
    // of subproblems
    int count[][] = new int[m][n];
    // Count of paths to reach any cell
in
    // first column is 1
    for (int i = 0; i < m; i++)
        count[i][0] = 1;
    // Count of paths to reach any cell
in
    // first column is 1
    for (int j = 0; j < n; j++)
        count[0][j] = 1;
    // Calculate count of paths for other
    // cells in bottom-up manner using
    // the recursive solution
    for (int i = 1; i < m; i++) {
        for (int j = 1; j < n; j++)
            // By uncommenting the last
part the!
            // code calculate the total
possible paths!
            // if the diagonal Movements
are allowed!
            count[i][j] = count[i - 1][j] +
count[i][j - 1];
            //+ count[i-1][j-1];
        }
        return count[m - 1][n - 1]/m;
    }
}

```



Java 7.0

Demo.java

CODE

OUTPUT

*****OUTPUT*****

No. of Stairs : 1

No. of Block : 9

No. of Stairs : 2

No. of Block : 7

No. of Stairs : 3

No. of Block : 4

No. of Stairs : 4

No. of Block : 0

maximum height of the staircase : 4



CODE

OUTPUT

```
1 public class Max_height_staircase {
2     public static void main(String[] args) {
3
4         int NO_blocks = 10;
5
6         System.out.println("*****OUTPUT*****");
7         ;
8         System.out.println("maximum height of the
9 staircase : " +
10 (max_height_staircase(NO_blocks)));
11     }
12     public static int max_height_staircase(int
13 blocks)
14     {
15         int stairs = 0;
16         while (blocks != 0)
17         {
18             if (stairs + 1 <= blocks)
19             {
20                 stairs++;
21                 System.out.println("No. of
22 Stairs : "+stairs);
23                 blocks = blocks - stairs;
24                 System.out.println("No. of
25 Block : "+blocks);
26             }
27             else{ break; }
28         }
29         return stairs;
30     }
31 }
```

*****OUTPUT*****

Not A Perfect square!

Floor Of A Square Root : 4



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Demo.java



CODE

OUTPUT

```
1 public class FloorSqrt {
2     public static void main(String[] args) {
3
4         int x = 17;
5         if(x%2 == 0)
6
7     { System.out.println("*****OUTPUT*****
8     ***");
9         System.out.println("Perfect Square!");
10        System.out.println("Square Root : "+
11        floorSqrt(x));
12    }
13    else
14    {
```




Java 7.0

Demo.java

CODE

OUTPUT

*****OUTPUT*****

the pair of integers in the array which
have minimum XOR value : 1

```

1 public class Pair_of_integer {
2
3     static int minXOR(int arr[], int n)
4     {
5         int min_xor = Integer.MAX_VALUE; //
        Initialize result
6         for (int i = 0; i < n; i++) {
7             for (int j = i + 1; j < n; j++)
8             {
9                 min_xor = Math.min(min_xor,
arr[i] ^ arr[j]);
10            }
11        }
12        return min_xor;
13    }
14
15    public static void main(String[] args) {
16
17        int arr[] = { 9, 5, 4 };
18        int n = arr.length;
19
20        System.out.println("*****OUTPUT*****")
;
        System.out.println( "the pair of
integers in the array which have minimum XOR
value : " + minXOR(arr, n));
21    }
22
23 }
24
25
26
27

```


*****OUTPUT*****

Single one element : 5

```
1  class Find_Single {
2
3
4      public static void main(String[] args) {
5
6          int array_data[] = {1,1,5,2,3,2,3};
7          int array_size = array_data.length;
8
9      System.out.println("*****OUTPUT*****");
10     System.out.println("Single one element : "+
11     find_Single_element(array_data,array_size));
12     }
13
14     public static int find_Single_element(int[]
15     array_data,int array_size) {
16
17         int res = array_data[0];
18         for (int i = 1; i < array_size; i++)
19         {
20             res = res ^ array_data[i];
21         }
22
23         return res;
24     }
25 }
```