| Status | Finished |
|---|---|
| Started | Saturday, 21 September 2024, 8:37 PM |
| Completed | Saturday, 21 September 2024, 9:18 PM |
| Duration | 40 mins 22 secs |

Question **1**

Correct

Marked out of 5.00

Write a program that takes as parameter an integer n.

You have to print the number of zeros at the end of the factorial of n.

For example, 3! = 6. The number of zeros are 0. 5! = 120. The number of zeros at the end are 1.

Note: n! < 10^5

Example Input:

3

Output:

0

Example Input:

60

Output:

14

Example Input:

100

Output:

24

Example Input:

1024

Output:

253

**For example:**

| Input | Result |
|-------|--------|
| 3 | 0 |
| 60 | 14 |
| 100 | 24 |
| 1024 | 253 |

**Answer:** (penalty regime: 0 %)

Reset answer

```java
1  // Java program to count trailing 0s in n!
2  import java.io.*;
3  import java.util.Scanner;
4  class prog {
5      // Function to return trailing
6      // 0s in factorial of n
7      static int findTrailingZeros(int n)
8      {
9          if (n < 0) // Negative Number Edge Case
10             return -1;
11
12         // Initialize result
13         int count = 0;
14
15         // Keep dividing n by powers
16         // of 5 and update count
17         for (int i = 5; n / i >= 1;n=n/i)
18             count += n / i;
19
20         return count;
21     }
22
23     // Driver Code
```

```
24        public static void main(String[] args)
25    ▾   {
26            int n ;
27            Scanner sc= new Scanner(System.in);
28            System.out.println(findTrailingZeros(sc.nextInt()));
29        }
30  }
31
```

| | Input | Expected | Got | |
|---|---|---|---|---|
| ✓ | 3 | 0 | 0 | ✓ |
| ✓ | 60 | 14 | 14 | ✓ |
| ✓ | 100 | 24 | 24 | ✓ |
| ✓ | 1024 | 253 | 253 | ✓ |

Passed all tests! ✓

Question **2**

Correct

Marked out of 5.00

Consider the following sequence:

1st term: 1

2nd term: 1 2 1

3rd term: 1 2 1 3 1 2 1

4th term: 1 2 1 3 1 2 1 4 1 2 1 3 1 2 1

And so on. Write a program that takes as parameter an integer n and prints the nth terms of this sequence.

Example Input:

1

Output:

1

Example Input:

4

Output:

1 2 1 3 1 2 1 4 1 2 1 3 1 2 1

**For example:**

| Input | Result |
|-------|--------|
| 1 | 1 |
| 2 | 1 2 1 |
| 3 | 1 2 1 3 1 2 1 |
| 4 | 1 2 1 3 1 2 1 4 1 2 1 3 1 2 1 |

**Answer:** (penalty regime: 0 %)

```java
import java.util.Scanner;

public class Main{
    public static void main(String[] args){
        Scanner s=new Scanner(System.in);
        int a = s.nextInt();
        String b="1";
        if(a>1){
            for (int i=2;i<=a;i++){
                b = b+" "+i+" "+b;
            }
        }
        System.out.print(b);
    }
}
```

| | Input | Expected | Got | |
|---|-------|----------|-----|---|
| ✓ | 1 | 1 | 1 | ✓ |
| ✓ | 2 | 1 2 1 | 1 2 1 | ✓ |

| | Input | Expected | Got | |
|---|---|---|---|---|
| ✓ | 3 | 1 2 1 3 1 2 1 | 1 2 1 3 1 2 1 | ✓ |
| ✓ | 4 | 1 2 1 3 1 2 1 4 1 2 1 3 1 2 1 | 1 2 1 3 1 2 1 4 1 2 1 3 1 2 1 | ✓ |

Passed all tests! ✓

Question **3**

Correct

Marked out of 5.00

Write a Java program to input a number from user and print it into words using for loop. How to display number in words using loop in Java programming.

Logic to print number in words in Java programming.

**Example**

**Input**

1234

**Output**

One Two Three Four

Input:

16

Output:

one six

**For example:**

| Test | Input | Result |
| --- | --- | --- |
| 1 | 45 | Four Five |
| 2 | 13 | One Three |
| 3 | 87 | Eight Seven |

**Answer:** (penalty regime: 0 %)

```java
import java.util.Scanner;
public class Main{
    public static void main(String[] args){
        Scanner s = new Scanner(System.in);
        String a = s.nextLine();
        for(int i=0;i<a.length();i++){
            switch(a.charAt(i)){
                case '1':
                System.out.print("One ");
                break;
                case '2':
                    System.out.print("Two ");
                    break;
                case '3':
                    System.out.print("Three ");
                    break;
                case '4':
                    System.out.print("Four ");
                    break;
                case '5':
                    System.out.print("Five ");
                    break;
                case '6':
                    System.out.print("Six ");
                    break;
                case '7':
                    System.out.print("Seven ");
                    break;
                case '8':
                    System.out.print("Eight ");
                    break;
                case '9':
                    System.out.print("Nine ");
                    break;
                default:
                System.out.print("Zero ");
            }
        }
    }
}
```

| | Test | Input | Expected | Got | |
|---|------|-------|----------|-----|---|
| ✓ | 1 | 45 | Four Five | Four Five | ✓ |
| ✓ | 2 | 13 | One Three | One Three | ✓ |
| ✓ | 3 | 87 | Eight Seven | Eight Seven | ✓ |

Passed all tests! ✓

◄ Lab-02-MCQ

Jump to...

Lab-03-MCQ ►