CS23333-Object Oriented Programming Using Java-2023

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Started	Sunday, 22 September 2024, 3:33 PM
Completed	Sunday, 22 September 2024, 4:12 PM
Duration	38 mins 53 secs

Question **1**

Correct

Marked out of 5.00

Flag question

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
// Java program to count trailing 0s in n!
import java.io.*;
import java.util.Scanner;
class prog {
    // Function to return trailing
    // 0s in factorial of n
    static int findTrailingZeros(int n)
    {
        if (n < 0) // Negative Number Edge Case
            return -1;

        int sum=1;
       int fact=1;
       for(int i=2;i<=n;i++)
       {
           sum=sum*i;
       }
       int count=0;
       int l=sum;
       int h;
      int div=5;
      while(n/div>0)
      {
          count+=n/div;
          div*=5;
      }

        return count;
    }

    // Driver Code
    public static void main(String[] args)
    {
        int n ;
        Scanner sc= new Scanner(System.in);
        n=sc.nextInt();
        int k=findTrailingZeros(n);
        System.out.println(k);
    }
}
```

	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

Flag question

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 %)

```
import java.util.Scanner;
public class se
{
    public static void main(String[]args)
    {
       Scanner sc=new Scanner(System.in);
       int n=sc.nextInt();
      StringBuilder ans=new StringBuilder();
      for(int i=n;i>0;i--)
      {
          for(int j=0;j<=ans.length();j+=4)
          {
              ans.insert(j,(i+" "));
          }
      }
      System.out.println(ans);
    }
}
```

	Input	Expected	Got	
✓	1	1	1	✓
✓	2	1 2 1	1 2 1	✓
✓	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

Flag question

You have recently seen a motivational sports movie and want to start exercising regularly. Your coach tells you that it is important to get up early in the morning to exercise. She sets up a schedule for you:

On weekdays (Monday - Friday), you have to get up at 5:00. On weekends (Saturday & Sunday), you can wake up at 6:00. However, if you are on vacation, then you can get up at 7:00 on weekdays and 9:00 on weekends.

Write a program to print the time you should get up.

Input Format

Input containing an integer and a boolean value.

The integer tells you the day it is (1-Sunday, 2-Monday, 3-Tuesday, 4-Wednesday, 5-Thursday, 6-Friday, 7-Saturday). The boolean is true if you are on vacation and false if you're not on vacation.

You have to print the time you should get up.

Example Input:

1 false

Output:

6:00

Example Input:

5 false

Output:

5:00

Example Input:

1 true

Output:

9:00

For example:

Input	Result
1 false	6:00
5 false	5:00
1 true	9:00

Answer: (penalty regime: 0 %)

```
import java.util.*;
public class k
{
    public static String get(int day,boolean vac)
    {
        if(vac)
        {
            if(day==1 || day==7)
            {
                return "9:00";
            }
            else
            {
                return "7:00";
            }
        }
        else
        {
            if(day==1 ||day==7)
            {
            return "6:00";
            }
            else
            {
                return "5:00";
            }
        }
    }
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
        int day=sc.nextInt();
        boolean vac=sc.nextBoolean();
        System.out.println(get(day,vac));
    }
}
```

	Input	Expected	Got	
✓	1 false	6:00	6:00	✓
✓	5 false	5:00	5:00	✓
✓	1 true	9:00	9:00	✓

Passed all tests! ✓

Finish review

◄ Lab-02-MCQ

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Lab-03-MCQ ►