

CS23333-Object Oriented Programming Using Java-2023

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Started	Sunday, 22 September 2024, 10:55 PM
Completed	Sunday, 22 September 2024, 11:20 PM
Duration	24 mins 31 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

```
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
14         int count =0;
15         // Keep dividing n by powers
16         // of 5 and update count
17         for (int i = 5; n / i >= 1; i*=5)
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();
29         n = sc.nextInt();
30         System.out.println(findTrailingZeros(n));
31     }
32 }
33
```

	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

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 %)

```

1 import java.util.*;
2 public class prog{
3     public static void main(String[] args){
4         Scanner scn = new Scanner(System.in);
5         String name= "";
6         String value = scn.nextLine();
7         for(int i=0;i<value.length();i++){
8             switch((value.charAt(i))){
9                 case '1':
10                     name="One";
11                     break;
12                 case '2':
13                     name="Two";
14                     break;
15                 case '3':
16                     name="Three";
17                     break;
18                 case '4':
19                     name="Four";
20                     break;
21                 case '5':
22                     name="Five";
23                     break;
24                 case '6':
25                     name="Six";
26                     break;
27                 case '7':
28                     name="Seven";
29                     break;
30                 case '8':
31                     name="Eight";
32                     break;
33                 case '9':
34                     name="Nine";
35                     break;
36                 case '0':
37                     name="Zero";
38                     break;
39             }
40             System.out.print(name+" ");
41         }
42     }
43 }
```

	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! ✓

Question 3

Correct

Marked out of 5.00

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 %)

```

1 import java.util.*;
2 public class Prog{
3     public static void main(String[] args){
4         Scanner scn= new Scanner(System.in);
5         int day = scn.nextInt();
6
7         boolean vacation = scn.nextBoolean();
8
9         if(vacation){
10             if(day == 1 || day == 7){
11                 System.out.println("9:00");
12             }
13             else {
14                 System.out.println("7:00");
15             }
16         }
17         else{
18             if( day == 1 || day == 7){
19                 System.out.println("6:00");
20             }
21             else{
22                 System.out.println("5:00");
23             }
24         }
25     }
26 }

```

	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