CS23333-Object Oriented Programming Using Java-2023

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Status	Finished
Started	Saturday, 5 October 2024, 11:48 PM
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Question **1**

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 SequenceGenerator{
    public static void main(String[]args){
        Scanner S = new Scanner(System.in);
        int n = S.nextInt();
        String term = generateTerm(n);
        System.out.print(term);
    }
    private static String generateTerm(int n){
        if (n==1){
            return "1";
        }
        String prevTerm = generateTerm (n-1);
        StringBuilder currentTerm = new StringBuilder(prevTerm);
        currentTerm.append(" " + n + " ");
        currentTerm.append(prevTerm);
        return currentTerm.toString();
    }
}
```

	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 **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 %)

```
import java.util.*;
public class Digts{
    public static void main(String[]arg){
        String[] words={"Zero","One","Two","Three","Four","Five","Six","Seven","Eight","Nine
        Scanner sc =new Scanner(System.in);
        String number=sc.nextLine().trim();


        for(int i=0;i<number.length();i++){
            char digitChar =number.charAt(i);
            if(Character.isDigit(digitChar)){
                int digit =Character.getNumericValue(digitChar);
                System.out.print(words[digit] + " ");
            }

        }
    }
}
```

	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

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 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;

        // Initialize result

        int count=0;
        // Keep dividing n by powers
        // of 5 and update count
        for (int i = 5; n / i >= 1;  i*=5   ){
            count += n / i;
}
        return count;
    }

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

```

	Input	Expected	Got	
	3	0	0	
	60	14	14	
	100	24	24	
	1024	253	253	

Passed all tests!

Finish review

◄ Lab-02-MCQ

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Lab-03-MCQ ►