

CS23333-Object Oriented Programming Using Java-2023

[Dashboard](#) / [My courses](#) / [CS23333-OOPJ-2023](#) / [Lab-02-Flow Control Statements](#) / [Lab-02-Logic Building](#)

Quiz navigation



[Show one page at a time](#)
[Finish review](#)

Status	Finished
Started	Tuesday, 1 October 2024, 8:26 AM
Completed	Wednesday, 2 October 2024, 9:02 PM
Duration	1 day 12 hours

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 %)

```
1 import java.util.Scanner;
2 public class main{
3     public static void main(String args[]){
4         Scanner s=new Scanner(System.in);
5         int a=s.nextInt();
6         String currentTerm="1";
7         for(int i=2;i<=a;i++){
8             currentTerm=currentTerm+" "+i+" "+currentTerm;
9         }
10        System.out.println(currentTerm);
11    }
12 }
```

	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 %)

```
1 import java.util.*;
2 public class one
3 {
4     public static void main(String args[])
5     {
6         Scanner sc=new Scanner(System.in);
7         int a=sc.nextInt();
8         String b=Integer.toString(a);
9         String[] word={"Zero","One","Two","Three","Four","Five","six","Seven","Eight","Nine"}
10        for(int i=0;i<b.length();i++)
11        {
12            char c=b.charAt(i);
13            int d=Character.getNumericValue(c);
14            System.out.print(word[d]+" ");
15        }
16    }
17 }
```

	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

Consider a sequence of the form 0, 1, 1, 2, 4, 7, 13, 24, 44, 81, 149...

Write a method program which takes as parameter an integer n and prints the nth term of the above sequence. The nth term will fit in an integer value.

Example Input:

5

Output:

4

Example Input:

8

Output:

24

Example Input:

11

Output:

149

For example:

Input	Result
-------	--------

5	4
8	24
11	149

Answer: (penalty regime: 0 %)

```

1 import java.util.Scanner;
2 public class main{
3     public static int term(int n){
4         if(n==1)return 0;
5         if(n==2)return 1;
6         if(n==3)return 1;
7         int a=0,b=1,c=1;
8         for(int i=4;i<=n;i++){
9             int next=a+b+c;
10            a=b;
11            b=c;
12            c=next;
13        }
14        return c;
15    }
16    public static void main(String args[]){
17        Scanner s=new Scanner(System.in);
18        int n=s.nextInt();
19        int result=term(n);
20        System.out.println(result);
21    }
22 }
```

	Input	Expected	Got	
	5	4	4	
	8	24	24	
	11	149	149	

Passed all tests!

[Finish review](#)

[◀ Lab-02-MCQ](#)

Jump to...

[Lab-03-MCQ ▶](#)