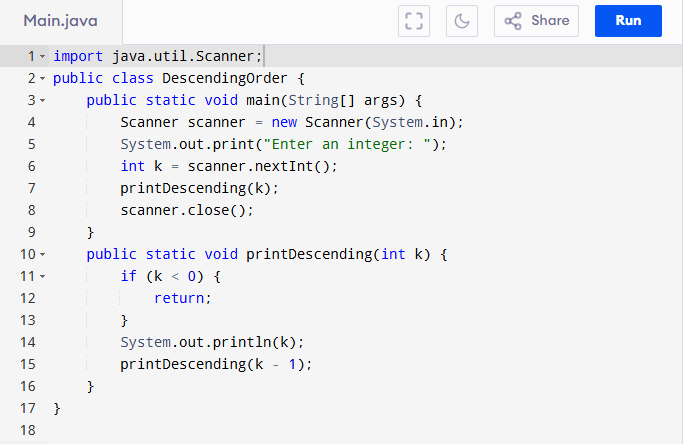
LAB # 03 RECURSION

# LAB TASK

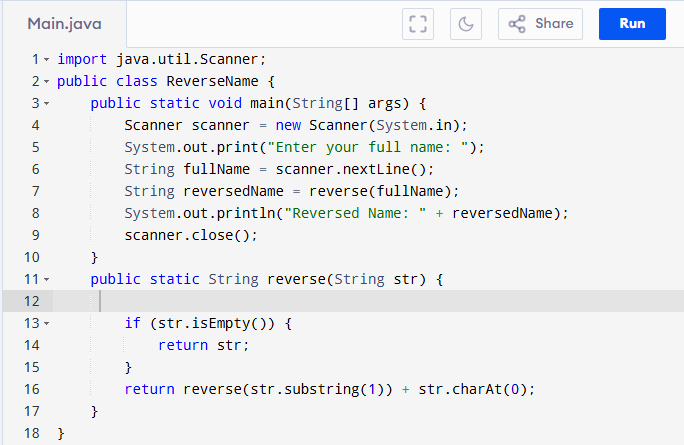
1. Write a program which takes an integer value (k) as input and prints the sequence of numbers from k to 0 in descending order.



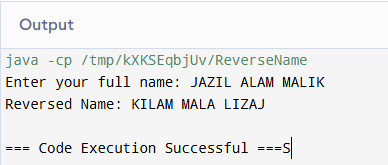
**OUTPUT:**



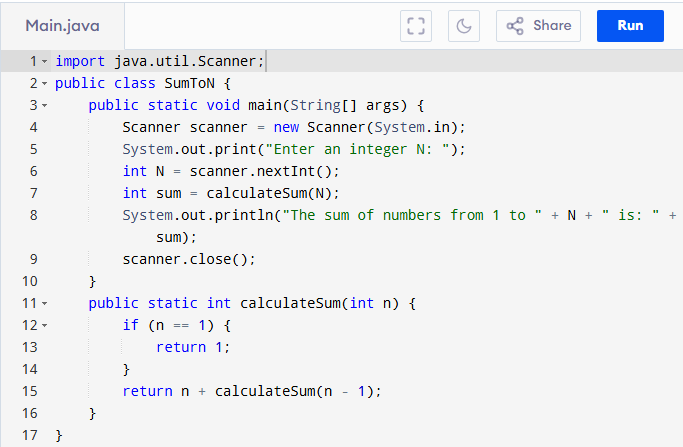
1. Write a program to reverse your full name using Recursion.



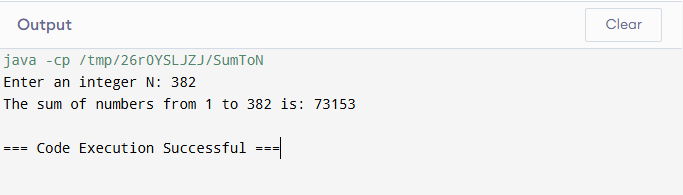
**OUTPUT:**



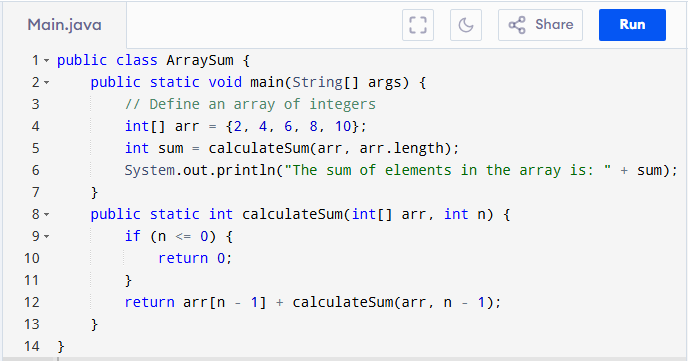
1. Write a program to calculate the sum of numbers from 1 to N using recursion. N should be user input.



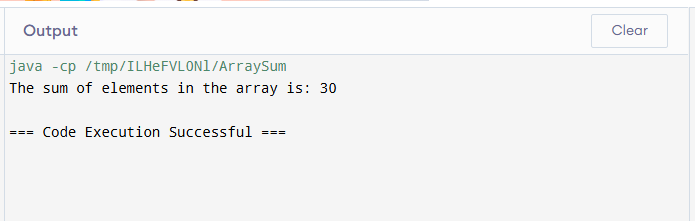
**OUTPUT**:



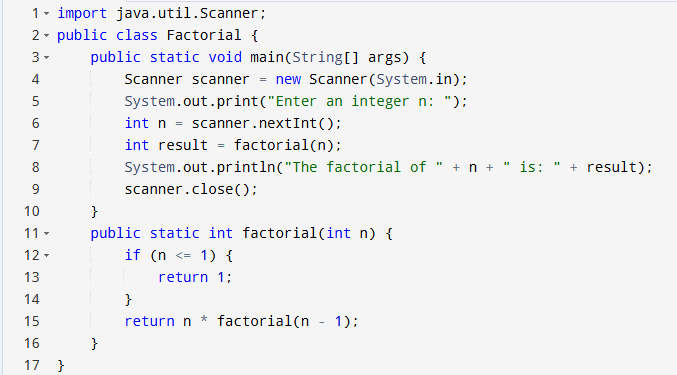
1. Write a recursive program to calculate the sum of elements in an array.



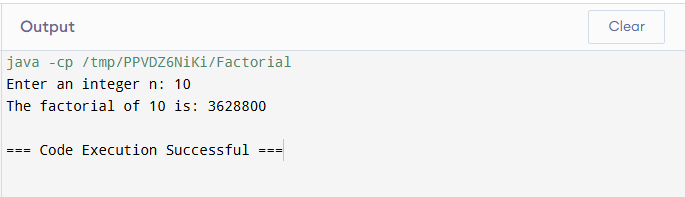
**OUTPUT:**



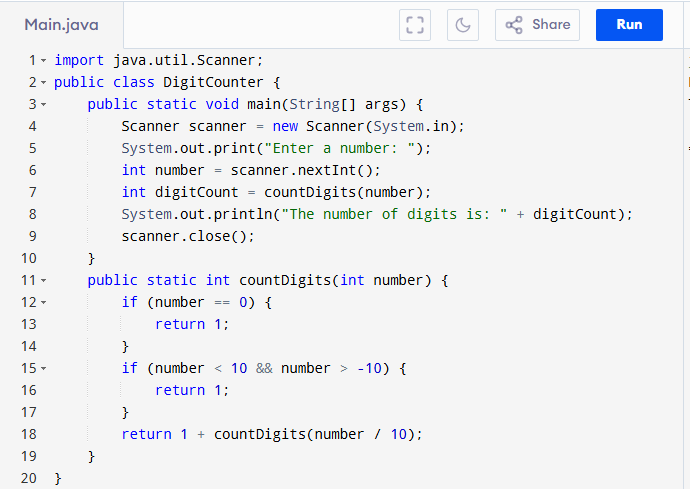
1. Write a recursive program to calculate the factorial of a given integer n



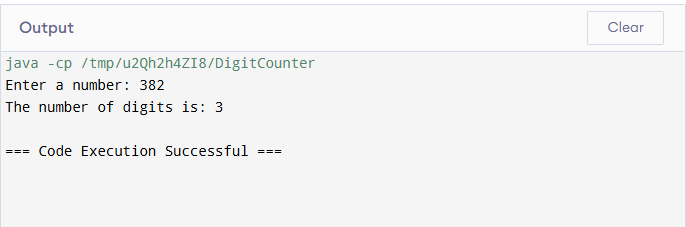
**OUTPUT:**



1. Write a program to count the digits of a given number using recursion.



**OUTPUT:**

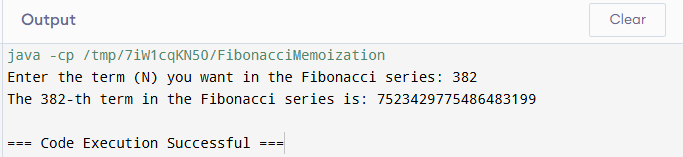
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# HOME TASK

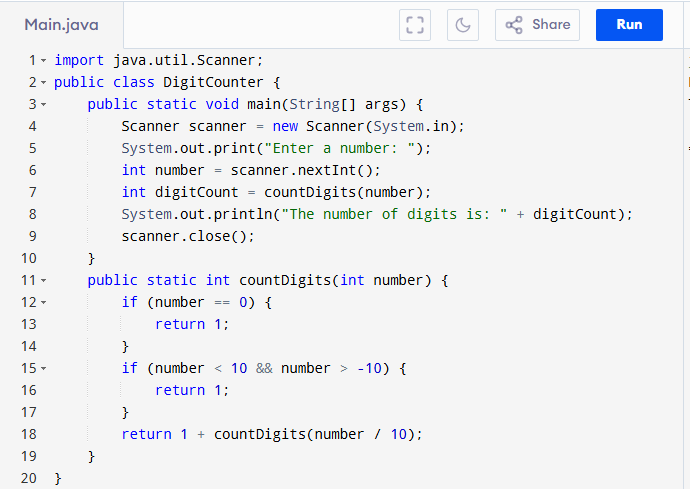
1. Write a java program to find the N-th term in the Fibonacci series using Memoization.



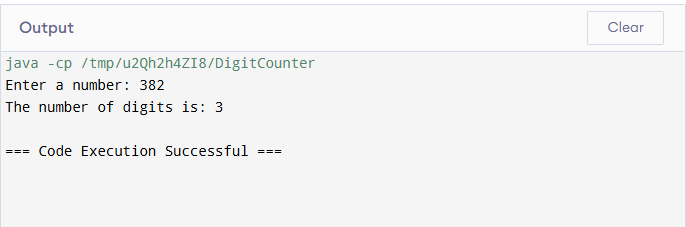
**OUTPUT:**



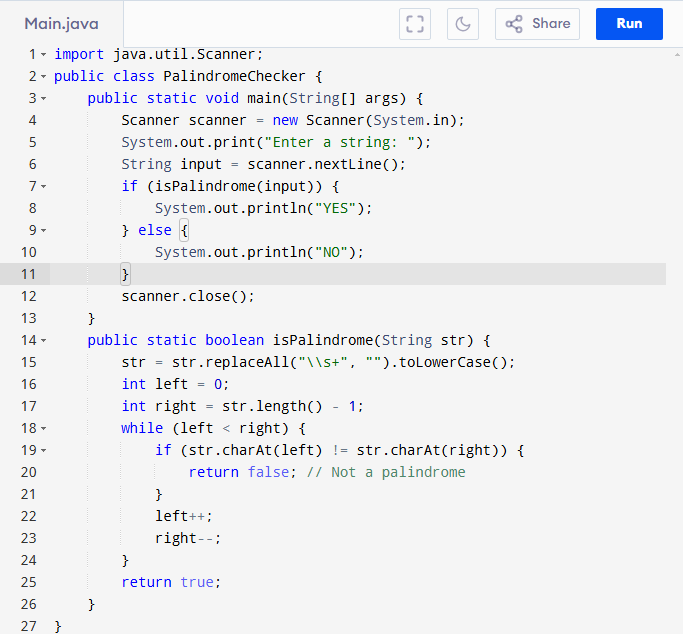
1. Write a program to count the digits of a given number using recursion.



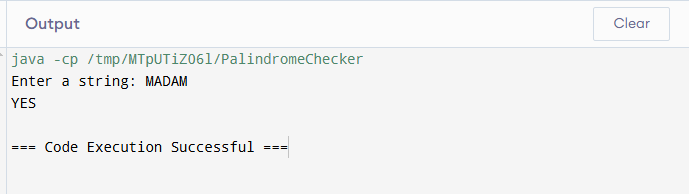
**OUTPUT:**

****

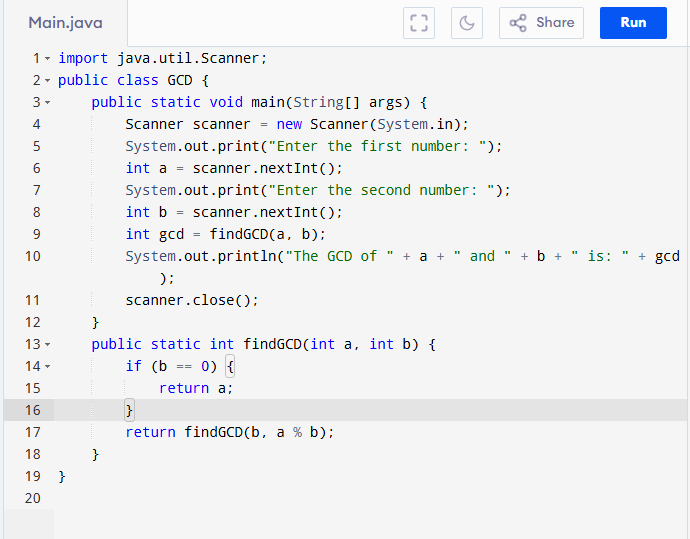
1. Write a java program to check whether a given string is a palindrome or not. A palindrome is a string that reads the same forwards and backwards.Print "YES" if the string is a palindrome, otherwise print "NO".



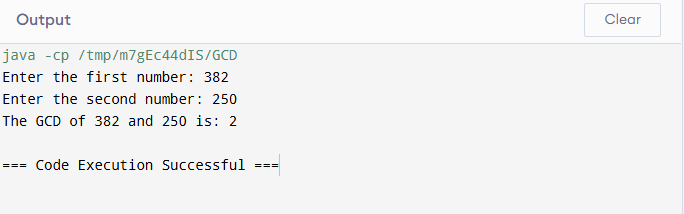
**OUTPUT:**



1. Write a recursive program to find the greatest common divisor (GCD) of two numbers using Euclid's algorithm.



**OUTPUT:**

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