Day 19 coding Statement : Write a program to identify if the number is Armstrong number or not

Description

Get an input number from user and check whether the given number is an Armstrong number or not.

E.g. Let the number be 1634,

Here $1^4 + 6^4 + 3^4 + 4^4 = 1634$

Therefore, this is an Armstrong number

Input

153

Output

Armstrong number

Input

121

Output

Not an Armstrong number

Code

import java.util.Scanner;

public class ArmstrongNumber

{

public static void main(String[] args)

{

  Scanner sc = new Scanner(System.in);

  System.out.print("Enter a number: ");

  int num = sc.nextInt();

  int originalNum, remainder, result = 0;

  originalNum = num;

```java
        while (originalNum != 0)
        {
            remainder = originalNum % 10;

            result += remainder * remainder * remainder;

            originalNum /= 10;
        }


        if (result == num)
            System.out.println(num + " is an Armstrong number.");
        else
            System.out.println(num + " is not an Armstrong number.");
    }
}
```

Output

```
java -cp /tmp/2J4dPjFAyn ArmstrongNumber
Enter a number: 153
153 is an Armstrong number.
```