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

```java
import java.util.Scanner;

public class Program {
        public static void main(String[] args) {
                Scanner sc = new Scanner(System.in);
                System.out.print("Enter a number : ");
                int num = sc.nextInt();
                int copy = num;
                int result = 0;
                int n = 0;
                int rem;
                while (num != 0) {
                        num /= 10;
                        n++;
                }
                num = copy;
                while (num != 0) {
                        rem = num % 10;
                        int mul = 1;
```

```java
            for (int i = 1; i <= n; i++) {
                mul = mul * rem;
            }
            result = result + mul;
            num /= 10;
        }
        if (result == copy)

            System.out.println("Armstrong Number");
        else
            System.out.println("Not Armstrong number");
    }
}
```