

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 :

```
// Day 19 coding Statement :  
// Write a program to identify if the number is Armstrong number or not  
import java.util.Scanner;  
public class Day_19 {  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);  
  
        System.out.print("Enter A Number : ");  
        int num;  
        int temp;  
        try {
```

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        num = sc.nextInt();
    } catch (Exception e) {
        System.out.println("Please enter numeric value only \n" + e);
        sc.close();
        return;
    }
    int l = 0;
    /*
    * String temp=String.valueOf(num);
    * l=temp.length();
    * System.out.println(l);
    */
    temp = num;

    while (temp > 0) {
        temp = temp / 10;
        l += 1;
    }

    temp = num;
    int isArmstrong = 0;
    while (temp > 0) {
        int rem = temp % 10;
        int multi = 1;
        for (int i = 0; i < l; i++) {
            multi = multi * rem;
        }
        isArmstrong += multi;
        temp /= 10;
    }

    if (num == isArmstrong) {
        System.out.println(num + " is an armstrong number ");
    } else {
        System.out.println(num + " is Not an Armstrong number ");
    }
}

```

```
        sc.close();
    }
}
```

Output:

```
C:\Users\DELL\Talent-Battle-100-Days-Coding-Series\Day_19\Java>javac Day_19.java

C:\Users\DELL\Talent-Battle-100-Days-Coding-Series\Day_19\Java>java Day_19
Enter A Number : 153
153 is an armstrong number

C:\Users\DELL\Talent-Battle-100-Days-Coding-Series\Day_19\Java>java Day_19
Enter A Number : 370
370 is an armstrong number

C:\Users\DELL\Talent-Battle-100-Days-Coding-Series\Day_19\Java>java Day_19
Enter A Number : 570
570 is Not an Armstrong number

C:\Users\DELL\Talent-Battle-100-Days-Coding-Series\Day_19\Java>java Day_19
Enter A Number : 2
2 is an armstrong number

C:\Users\DELL\Talent-Battle-100-Days-Coding-Series\Day_19\Java>java Day_19
Enter A Number : 855
855 is Not an Armstrong number
```