

```

import java.util.Scanner;
class Armstrong
{
    public static void main(String[] args)
    {
        Scanner scan = new Scanner(System.in);

        System.out.println("Enter the Number");
        int number =scan.nextInt();
        int backup =number;
        int lastdigit=0;
        int sum=0;
        int product =1;
        int power=0;

        while (number !=0)
        {
            power++;
            number =number/10;
        }

        number= backup;
        while (number !=0)
        {
            lastdigit = number%10;

            for (int i=1;i<=power ; i++)
            {
                product =product*lastdigit;
            }

            sum =sum+product;
            product =1;
            number =number/10;
        }
        number = backup;
        if (sum==number)
        {
            System.out.println("ARMSTRONG");
        }
        else
        {
            System.out.println(" not ARMSTRONG");
        }
    }
}

```