

```
import java.util.*;
```

```
class Day19 {
```

```
    static int countDigits(int num) {
```

```
        int count = 0;
```

```
        while (num > 0) {
```

```
            num /= 10;
```

```
            count++;
```

```
        }
```

```
        return count;
```

```
    }
```

```
    static boolean isArmstrong(int num) {
```

```
        int originalNum = num;
```

```
        int power = countDigits(num);
```

```
        int sum = 0;
```

```
        while (num > 0) {
```

```
            int digit = num % 10;
```

```
            sum += Math.pow(digit, power);
```

```
            num /= 10;
```

```
        }
```

```
        return sum == originalNum;
```

```
    }
```

```
    public static void main(String[] args) {
```

```
        Scanner sc = new Scanner(System.in);
```

```
        int number = sc.nextInt();
```

```
        if (isArmstrong(number)) {
```

```
            System.out.println(number + " is an Armstrong number.");
```

```
    } else {  
        System.out.println(number + " is not an Armstrong number.");  
    }  
}  
}
```