SE-1105 LABWORK-2

An Armstrong number is a number that is the sum of its own digits each raised to the power of the number of digits. A few examples of Armstrong Numbers are:

$$4 = 4^1$$

$$153 = 1^3 + 5^3 + 3^3$$

$$371 = 3^3 + 7^3 + 1^3$$

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

Write a program that reads an integer from the user and decides if the given number is an Armstrong number or not an Armstrong Number. Please do not use anything you have not covered in lectures.

Example Outputs:

```
Please enter an integer : 371
371 is an Armstrong Number
```

```
Please enter an integer : 1634
1634 is an Armstrong Number
```

```
Please enter an integer : 1567
1567 is not an Armstrong number
```