Problem32 : Check whether a number is an Armstrong no.

Code:

```c
#include <stdio.h>
#include <math.h>

int main() {
    int num, original, sum = 0, digit, n = 0;

    printf("Enter a number: ");
    scanf("%d", &num);

    original = num;
    for(int temp = num; temp != 0; temp = temp / 10)
        n++;

    for(int temp = num; temp != 0; temp = temp / 10) {
        digit = temp % 10;
        sum += pow(digit, n);
```

```c
    }

    if(sum == original)
        printf("%d is an Armstrong number\n", original);
    else
        printf("%d is not an Armstrong number\n", original);

    return 0;
}
```

Output:

```
153
153 is an Armstrong number
121
121 is not an Armstrong number
```