More

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AMSTRONG

Input Format

Input a number.

Constraints

Use the concept of functions in C.

Output Format

Depends on the input.

Sample Input 0

153

Sample Output 0

Amstrong

Sample Input 1

100

Sample Output 1

Not Amstrong

```
C
Current Buffer (saved locally, editable) & 🔈
                                                                                                                           \Diamond
 1
 2 🔻
     #include <stdio.h>
 3
     int power(int, int);
 4
 5
     int main()
 6
 7
       int n, sum = 0, t, remainder, digits = 0;
 8
 9
10
       scanf("%d", &n);
11
```

```
12
         t = n;
   13
   14 ▼
         while (t != 0) {
           digits++;
   15
  16
           t = t/10;
  17
   18
   19
         t = n;
   20
  21 🔻
         while (t != 0) {
  22
           remainder = t%10;
   23
           sum = sum + power(remainder, digits);
   24
           t = t/10;
   25
   26
   27
         if (n == sum)
   28
           printf("Amstrong");
  29
         else
           printf("Not Amstrong");
  30
  31
   32
         return 0;
  33
   34
   35 ▼
       int power(int n, int r) {
   36
         int c, p = 1;
  37
  38
         for (c = 1; c <= r; c++)
  39
           p = p*n;
  40
  41
         return p;
  42
  43
   44
   45
                                                                                                                       Line: 1 Col: 1
                                                                                                                     Submit Code
<u>♣ Upload Code as File</u> Test against custom input
                                                                                                       Run Code
 Testcase 0 🗸
                Testcase 1 🗸
  Congratulations, you passed the sample test case.
  Click the Submit Code button to run your code against all the test cases.
  Input (stdin)
  Your Output (stdout)
   Amstrong
  Expected Output
   Amstrong
```