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The Virtual Learning Environment for Computer Programming

"Strange" numbers

X47452_en

A positive number > 0 is "strange" if when adding each of its digits raised to the number of digits that make it up, we obtain the number itself.

For example, 153 (which has three digits) is "strange", $153 = 1^3 + 5^3 + 3^3$

Make a program that reads a positive integer and checks if it is "strange" or not.

Input

A positive integer > 0 and < 10000

Output

Prints the input number and says if it is a "strange" number or not

Observation

It is forbidden to use any external function except, cin and cout, and also the program must be well documented if not it will be invalidated.

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3

Sample output 1

strange number: 3

Sample input 2

153

Sample output 2

strange number: 153

Sample input 3

12

Sample output 3

not strange number: 12

Problem information

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