

THE ARMSTRONG NUMBER PROBLEM:

An Armstrong number is a number that is the sum of its own digits each raised to the power of the number of digits.

For example:

- 9 is an Armstrong number, because $9 = 9^1 = 9$
- 10 is *not* an Armstrong number, because $10 \neq 1^2 + 0^2 = 1$
- 153 is an Armstrong number, because: $153 = 1^3 + 5^3 + 3^3 = 1 + 125 + 27 = 153$
- 154 is *not* an Armstrong number, because: $154 \neq 1^3 + 5^3 + 4^3 = 1 + 125 + 64 = 190$

Write some code to determine whether a number is an Armstrong number.

Input (armstrong.txt)

9
10
153
154

Output

9 Yes
10 No
153 Yes
154 No