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## First $n$ “strange” numbers

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A positive number  $n > 0$  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 returns the first  $n$  “strange” numbers.

### Input

A positive integer,  $n > 0$ , asking for the first  $n$  “strange” numbers.

### Output

Prints the list with the first  $n$  “strange” numbers.

### 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.

### Problem information

Author : PRO1

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