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## First n “strange” numbers

**X76141\_en**

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**

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Generation: 2026-01-25T22:28:28.670Z

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