

## C. Unique Number

time limit per test: 2 seconds

memory limit per test: 256 megabytes

input: standard input

output: standard output

You are given a positive number  $x$ . Find the smallest positive integer number that has the sum of digits equal to  $x$  and all digits are **distinct** (unique).

### Input

The first line contains a single positive integer  $t$  ( $1 \leq t \leq 50$ ) — the number of test cases in the test. Then  $t$  test cases follow.

Each test case consists of a single integer number  $x$  ( $1 \leq x \leq 50$ ).

### Output

Output  $t$  answers to the test cases:

- if a positive integer number with the sum of digits equal to  $x$  and all digits are different exists, print the smallest such number;
- otherwise print  $-1$ .

### Example

input	Copy
4 1 5 15 50	
output	Copy
1 5 69 -1	

### Codeforces Round #690 (Div. 3)

Finished

Practice



### → Virtual participation

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Language: GNU G++20 11.2.0 (64 bit, w)

 Choose file: [Choose File](#) No file chosen

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- Announcement 
- Tutorial 



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