

## B. Perfect Number

time limit per test: 2 seconds  
memory limit per test: 256 megabytes  
input: standard input  
output: standard output

We consider a positive integer perfect, if and only if the sum of its digits is exactly 10. Given a positive integer  $k$ , your task is to find the  $k$ -th smallest perfect positive integer.

### Input

A single line with a positive integer  $k$  ( $1 \leq k \leq 10\,000$ ).

### Output

A single number, denoting the  $k$ -th smallest perfect integer.

### Examples

<b>input</b>
1
<b>output</b>
19

  

<b>input</b>
2
<b>output</b>
28

### Note

The first perfect integer is 19 and the second one is 28.