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 ($1 \le k \le 10000$).

Output

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

input Copy Copy Copy 1 Copy 19 input

Copy

2

output

Copy 28

Note

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