

First Number

[English](#)

[Vietnamese](#)

A sequence of digits is obtained by writing down decimal representations of all integers starting with 1 and continuing up to a certain number N consecutively like this:

12345678910111213141516171819202122 ...

etc. Write a program that will compute the position of the first occurrence of the decimal representation of number N in the sequence.

Input

The first and only line of the input contains the integer N, $1 \leq N \leq 100,000$.

Output

The first and only line of output should contain the position of the first occurrence of the decimal representation of number N in the sequence.

Sample

input
15

output
20

input
34

output
3

input
142

output
73