

VMSS Pre-Pre-Windsor P5 - Productive Math Class

Time limit: 1.0s **Memory limit:** 64M

Today in period 8/9 math, Jerry decided to distract Mr. Ing by writing down every single natural number in the entire known universe in ascending order (it was a very long class). He's also forgotten to put some commas, and he needs your help in determining the N^{th} digit in his sequence ($1 \leq N \leq 10^9$). Could you be a dear and help Jerry out?

Input Specification

A single integer N ($1 \leq N \leq 10^9$).

Output Specification

The N^{th} digit in the sequence of all natural numbers.

Sample Input 1

17

Sample Output 1

3

Sample Input 2

2034525

Sample Output 2

5