

Good Mixture!!!

A **Good Mixture** is a sequence of digits 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 number of digits in such a sequence.

INPUT

First line of input contains an integer t , $t \leq 200$, representing the number of test-cases. Then t lines follow each containing an integer N , $1 \leq N \leq 10^9$

OUTPUT

For each test case output should contain the number of digits in a sequence determined by the number given in the input.

SAMPLE

Input

3

5

15

120

Output

5

21

252