

B. Ordinary Numbers

time limit per test: 2 seconds

memory limit per test: 256 megabytes

input: standard input

output: standard output

Let's call a positive integer n ordinary if in the decimal notation all its digits are the same. For example, 1, 2 and 99 are ordinary numbers, but 719 and 2021 are not ordinary numbers.

For a given number n , find the number of ordinary numbers among the numbers from 1 to n .

Input

The first line contains one integer t ($1 \leq t \leq 10^4$). Then t test cases follow.

Each test case is characterized by one integer n ($1 \leq n \leq 10^9$).

Output

For each test case output the number of ordinary numbers among numbers from 1 to n .

Example

input	Copy
6 1 2 3 4 5 100	
output	Copy
1 2 3 4 5 18	

Codeforces Round #719 (Div. 3)

Finished

→ Virtual participation


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brute force math number theory *800
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