



HOME TOP CONTESTS GYM BUGABOOSET GROUPS RATING EDU API CALENDAR HELP RAIF ML 🖫 DELTIX ROUNDS 2021 👻

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

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 ($1 \le t \le 10^4$). Then t test cases follow.

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

Output

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

Example

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

Codeforces Round #719 (Div. 3)

Finished

→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

→ Problem tags	\rightarrow	Pro	bl	em	tags
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brute force	math	number theory	*800	
		No tag edit access		

→ Contest materials

- Announcement
- Tutorial

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