

Eleven

Description

One, Two, Three, Four, Five, Six, Seven, Eight, Nine, Ten, Eleven... Oh I don't like eleven! It makes me think about the fact that I am single, just like why I hate Singles' Day (11/11).

More than this, I don't like numbers that contains **11** in its decimal representation, either. For example, I don't like both **11** and **7110**, but **514**, **50216** and all other numbers without **11** are fine. Can you tell me how many integers are fine between 1 and n ?

Input

The first line contains an integer T indicating the total number of test cases. Each test case contains a integer n in one line.

- $1 \leq T \leq 20000$
- $1 \leq n \leq 10^{18}$

Output

For each test case, please output the number of fine integers between 1 and n in one line.

Sample Input

3
10
11
514

Sample Output

10
10
499