

Tidy Number

Given a number, the task is to check if it is tidy or not. A tidy number is a number whose digits are in non-decreasing order.

Examples:

Input : 1234

Output : Yes

Input : 1243

Output : No

Digits "4" and "3" violate the property.

Input:

The first line of input contains an integer T denoting the no of test cases.

Then T test cases follow. Each test case contains an integer N.

Output:

For each test case in a new line print 1 if the no is a tidy number else print 0.

Constraints:

$1 \leq T \leq 100$

$1 \leq N \leq 10^9 + 7$

Example:

Input:

2

1234

1243

Output:

1

0