Bigger is Greater

Lexicographical order is often known as alphabetical order when dealing with strings. A string is *greater* than another string if it comes later in a lexicographically sorted list.

Given a word, create a new word by swapping some or all of its characters. This new word must meet two criteria:

- It must be greater than the original word
- It must be the smallest word that meets the first condition

Complete the function *biggerIsGreater* below to create and return the new string meeting the criteria. If it is not possible, return *no answer*.

Input Format

The first line of input contains T, the number of test cases.
Each of the next T lines contains w.

Constraints

- $1 \leq T \leq 10^5$
- $1 \leq |w| \leq 100$
- w will contain only letters in the range ascii[a..z].

Output Format

For each test case, output the string meeting the criteria. If no answer exists, print `no answer`.

Sample Input 0

```
5
ab
bb
hefg
dhck
dkhc
```

Sample Output 0

```
ba
no answer
hegf
dhkc
hcdk
```

Explanation 0

- *Test case 1:*
  `ba` is the only string which can be made by rearranging `ab`. It is greater.
- *Test case 2:*
  It is not possible to rearrange `bb` and get a greater string.
- *Test case 3:*
  `hegf` is the next string greater than `hefg`.
- *Test case 4:*
  `dhkc` is the next string greater than `dhck`.
- *Test case 5:*

`hcdk` is the next string greater than `dkhc`.