

[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

For example, given the word  $w = \mathbf{abcd}$ , the next largest word is  $\mathbf{abdc}$ .

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

### Function Description

Complete the *biggerIsGreater* function in the editor below. It should return the smallest lexicographically higher string possible from the given string or `no answer`.

*biggerIsGreater* has the following parameter(s):

- $w$ : a string

### 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.

### Sample Input 1

```
6
lmno
dcba
dcbb
abdc
abcd
fedcbabcd
```

### Sample Output 1

```
lmon
no answer
no answer
acbd
abdc
fedcbabdc
```