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# Minimal String AZ101

? Ask Doubt

Time-Limit: 1 sec    Score: 0.00/100    Difficulty :

Memory: 256 MB    Accepted Submissions: 100

## Description

You are given a string S along with 2 empty strings T and U. You can make the following two moves: pop first character of S and append it to T or pop last character of T and append it to U.

You need to make the string U lexicographically minimum such that string S and T are empty.

## Input Format

The first line of the input contains one integer T - the number of test cases. Then T test cases follow.

The first line of each test contains a string S.

## Output Format

For each test case, print the lexicographically minimum possible string U.

## Constraints

$1 \leq T \leq 10^6$

$1 \leq |S| \leq 10^6$

It is guaranteed that the sum of |S| over all test cases does not exceed  $10^6$ .

## Sample Input 1

Copy

```
3
bdab
sss
gtddb
```

## Sample Output 1

Copy

```
abdb
sss
bddtg
```

C++14[GCC] ▾

Submit

1

