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**String Necklace** 

Problem Code: STRNECK



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### This problem is worth 1 point.

You are given a sequence of characters consisting only of the following: a, b, c and ?. You need to replace every? with one of a, b or c such that no two consecutive characters are the same. In addition, the first and the last characters of the string must not be the same.

You need to return the lexicographically smallest string which satisfies the above constraints. If you cannot build any string that satisfies the above constraints, return "Not found" (without the quotes).

## Input

The first line of input contains an integer T, the number of test cases. This is followed by T lines, each containing a test case.

Each test case is represented by a string that contains characters from the set { a, b, c, ? }. Note that an input string may already contain same characters adjacent to each other. If this is the case, the output for it should be "Not found".

You will be provided with a pre-filled template when you click "Submit" for C, C++ and Java only. You may use this template. The template parses the input and calls getLexSmallestString once for each test case in the standard input. The return value of getLexSmallestString is also printed to standard output by the template.

getLexSmallestString must return "Not found" for inputs for which an answer cannot be

# Output

Print a single line for each test case. The lexicographically smallest string, or "Not found", if no such string exists.

## Constraints

String length will be between 2 and 10,000 characters. A file may contain up to 500 test

# Sample Input

3
??
aa??b
?abc?

# Sample Output

ab	
Not fo	ound
babca	

Author: directi\_campus (/users/directi\_campus)

Tags: directi\_campus (/tags/problems/directi\_campus)

20-10-2012 Date Added: Time Limit: 2.18026 secs All Submissions (/DI17R043/status/STRNECK)

**Successful Submissions** 

Source Limit: 50000 Bytes

Languages: C, CPP 4.3.2, CPP 6.3, CPP14, JAVA, PYTH, PYTH 3.5

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## CodeChef (http://www.codechef.com) - A Platform for Aspiring Programmers

CodeChef was created as a platform to help programmers make it big in the world of algorithms, **computer programming** and **programming contests**. At CodeChef we work hard to revive the geek in you by hosting a **programming contest** at the start of the month and another smaller programming challenge in the middle of the month. We also aim to have training sessions and discussions related to **algorithms**, **binary search**, technicalities like **array size** and the likes. Apart from providing a platform for **programming competitions**, CodeChef also has various algorithm tutorials and forum discussions to help those who are new to the world of **computer programming**.

### Practice Section (https://www.codechef.com/problems/easy) - A Place to hone your 'Computer Programming Skills'

Try your hand at one of our many practice problems and submit your solution in a language of your choice. Our **programming contest** judge accepts solutions in over 35+ programming languages. Preparing for coding contests were never this much fun! Receive points, and move up through the CodeChef ranks. Use our practice section to better prepare yourself for the multiple **programming challenges** that take place through-out the month on CodeChef.

## Compete (https://www.codechef.com/problems/easy) - Monthly Programming Contests and Cook-offs

Here is where you can show off your **computer programming skills**. Take part in our 10 day long monthly coding contest and the shorter format Cook-off **coding contest**. Put yourself up for recognition and win great prizes. Our **programming contests** have prizes worth up to INR 20,000 (for Indian Community), \$700 (for Global Community) and lots more CodeChef goodies up for grabs.

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Contest Hosting (http://www.codechef.com/hostyourcontest)

Problem Setting (http://www.codechef.com/problemsetting)

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