

As and Bs
Input File: AsAndBsIn.txt

When Nadia was a child, she was frightened by the letters A and B. Finally, after years of therapy, she can tolerate an occasional A or B, but cannot deal with two consecutive occurrences of either A or B. For example “BOBBY” would make her say “AAK” except for the fact that “AAK” has a double occurrence of the letter A.

Since she receives a lot of email, she has asked you to write a program that will remove all double occurrences of the letter A and replace them with the letter B, and remove all double occurrences of the letter B and replace them with the letter A. Thus, BOBBY would become BOAY, and AAK would become BK. Sometime the replacement spawns another replacement. For example, TABBIES is initially changed to TAAIES, and then changed to TBIES. Your task is to read in a string of capital letters and output the string with no double occurrences of the letters A or B.

Inputs:

The first input will be the number of strings to process. This will be followed by one string per line.

Output:

There will one line of output per line of input, which will be the input strings with no double occurrences of A or B.

Sample Input

```
9
TBBBCABBA
AABCABBD
ABABABB
BABABAA
BBBCABBA
ABBAAB
AA
XBBAX
TBBBCABBAAABCABBDABABABBBABABAABBBBCABBAABBAABAAXBBAX
```

Sample output

```
TABCBA
ACBD
B
A
ABCBA
AB
B
XBX
TABCACBDABCBXBX
```