Coding Area

Class Arrangement

Problem Description

A teacher in a class with N students has noticed that some students have formed their own groups and hence prevented intermingling of students. To get those students to mix with each other, the teacher has decided a seating pattern.

The seating pattern is very simplistic viz. every boy should sit next to a girl and every girl should next to a boy. They are all seated in one line. It is also mandatory that no two boys sit together, and no two girls sit together.

Your task is to make the above happen with minimum number of swaps between as-is situation to desired situation.

Constraints

0 <= N <= 50

Number of boys and girls can be equal or at the most differ by 1.

Input

Input consists of a single string of length N.

String comprises of characters 'B' and 'G', where B denotes a Boy and G denotes a Girl.

Output

Single integer S which is the minimum number of swaps required to make boys and girls sit alternately.

Time Limit (secs)

1

Examples

Example 1

Input

GGBBG

Output

1

Explanation

The as-is state is GGBBG. The desired state is GBGBG. If Girl in seat 2 is swapped with Boy in seat 3 then the desired result is achieved in 1 swap. Hence, Output is 1.

Example 2

Input

GGGGBBBGBBGGB

Output

4

Explanation

The as-is state is GGGGBBBGBBGGB. The desired state is GBGBGBGBGBGBG.

The swaps required are

Girl in seat 2 with boy in seat 7 GBGGBBGGBBGGB.

Girl in seat 4 with boy in seat 5 GBGBGBGGBBGGB.

Girl in seat 8 with boy in seat 9 GBGBGBGBGBGGB.

Girl in seat 12 with boy in seat 13 GBGBGBGBGBGBG.

The minimum number of swaps in which it can be achieved is 4. Hence, the output is 4.

Upload Solution [Question : A]

I, **Soumyadeep** confirm that the answer submitted is my own.

Took help from online sources (attributions)

Choose a File ...