

Contest Duration: 2025-08-30(Sat) 22:00 (<http://www.timeanddate.com/worldclock/fixedtime.html?iso=20250830T2100&p1=248>) - 2025-08-30(Sat) 23:40 (<http://www.timeanddate.com/worldclock/fixedtime.html?iso=20250830T2240&p1=248>) (local time) (100 minutes)

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C - Alternated

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Time Limit: 2 sec / Memory Limit: 1024 MiB

Score : 350 points

Problem Statement

You are given a string S of length $2N$. S contains exactly N occurrences of A and N occurrences of B.

Find the minimum number of operations (possibly zero) needed to make S have no adjacent identical characters, where an operation consists of swapping two adjacent characters in S .

Constraints

- $1 \leq N \leq 5 \times 10^5$
- N is an integer.
- S is a string of length $2N$ consisting of N occurrences of A and N occurrences of B.

Input

The input is given from Standard Input in the following format:

N
 S

2026-01-02 (Fri)
05:29:17 +11:00

Output

Print the answer.

Sample Input 1

[Copy](#)

3

AABBBA

[Copy](#)

Sample Output 1

[Copy](#)

2

[Copy](#)

By performing operations as follows, you can achieve a state with no adjacent identical characters in two operations:

- Swap the 2nd and 3rd characters. S becomes ABABBA.
- Swap the 5th and 6th characters. S becomes ABABAB.

Sample Input 2

[Copy](#)

3

AAABBB

[Copy](#)

Sample Output 2

[Copy](#)

3

[Copy](#)

Note that you can only swap adjacent characters.

Sample Input 3

[Copy](#)

17

AAABABABBBABABBABABABABAAABABABBA

[Copy](#)

Sample Output 3

[Copy](#)

15

[Copy](#)

'#telegram)

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