



D. Colorful Stamp

time limit per test: 1 second
memory limit per test: 256 megabytes
input: standard input
output: standard output

A row of n cells is given, all initially white. Using a stamp, you can stamp any two neighboring cells such that one becomes red and the other becomes blue. A stamp can be rotated, i.e. it can be used in both ways: as **BR** and as **RB**.

During use, the stamp must completely fit on the given n cells (it cannot be partially outside the cells). The stamp can be applied multiple times to the same cell. Each usage of the stamp recolors both cells that are under the stamp.

For example, one possible sequence of stamps to make the picture **BRBBW** could be **WWWWW** \rightarrow **WWRBW** \rightarrow **BRRBW** \rightarrow **BRBBW**. Here **W**, **R**, and **B** represent a white, red, or blue cell, respectively, and the cells that the stamp is used on are marked with an underline.

Given a final picture, is it possible to make it using the stamp zero or more times?

Input

The first line contains an integer t ($1 \leq t \leq 10^4$) — the number of test cases.

The first line of each test case contains an integer n ($1 \leq n \leq 10^5$) — the length of the picture.

The second line of each test case contains a string s — the picture you need to make. It is guaranteed that the length of s is n and that s only consists of the characters **W**, **R**, and **B**, representing a white, red, or blue cell, respectively.

It is guaranteed that the sum of n over all test cases does not exceed 10^5 .

Output

Output t lines, each of which contains the answer to the corresponding test case. As an answer, output "YES" if it possible to make the picture using the stamp zero or more times, and "NO" otherwise.

You can output the answer in any case (for example, the strings "yEs", "yes", "Yes" and "YES" will be recognized as a positive answer).

Example

input	Copy
12 5 BRBBW 1 B 2 WB 2 RW 3 BRB 3 RBB 7 WWWWW 9 RBWBWRRBW 10 BRBRBRBRB 12 BBBRWWRRRWBR 10 BRBRBRBRBW 5 RBWBW	
output	Copy
YES NO NO NO YES YES YES NO YES NO YES NO	

Note

The first test case is explained in the statement.

For the second, third, and fourth test cases, it is not possible to stamp a single cell, so the answer is "NO".

For the fifth test case, you can use the stamp as follows: **WWW** \rightarrow **WRB** \rightarrow **BRB**.

For the sixth test case, you can use the stamp as follows: **WWW** \rightarrow **WRB** \rightarrow **RBB**.

For the seventh test case, you don't need to use the stamp at all.

Codeforces Round 784 (Div. 4)

Finished

Practice

→ Virtual participation

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Start virtual contest

→ Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest

→ Submit?

Language: GNU G++20 11.2.0 (64 bit, w)

Choose file: Choose File No file chosen

Submit

→ Last submissions

Submission	Time	Verdict
230159914	Oct/28/2023 14:21	Accepted
230158218	Oct/28/2023 14:08	Compilation error
230158136	Oct/28/2023 14:08	Compilation error
230155332	Oct/28/2023 13:47	Wrong answer on test 2
230155200	Oct/28/2023 13:46	Wrong answer on test 2
230155056	Oct/28/2023 13:45	Compilation error
230153501	Oct/28/2023 13:33	Wrong answer on test 2

→ Problem tags

implementation *1100

No tag edit access

→ Contest materials

Announcement (en)

Tutorial (en)