



Happy Ladybugs

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Problem

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Happy Ladybugs is a board game having the following properties:

- The board is represented by a string, b , of length n . The i^{th} character of the string, b_i , denotes the i^{th} cell of the board.
 - If b_i is an underscore (i.e., $_$), it means the i^{th} cell of the board is empty.
 - If b_i is an uppercase English alphabetic letter (i.e., A through Z), it means the i^{th} cell contains a ladybug of color b_i .
 - String b will not contain any other characters.
- A ladybug is *happy* only when its left or right adjacent cell (i.e., $b_{i\pm 1}$) is occupied by another ladybug having the same color.
- In a single move, you can move a ladybug from its current position to any empty cell.

Given the values of n and b for g games of Happy Ladybugs, determine if it's possible to make all the ladybugs happy. For each game, print YES on a new line if all the ladybugs can be made happy through some number of moves; otherwise, print NO to indicate that no number of moves will result in all the ladybugs being happy.

Input Format

The first line contains an integer, g , denoting the number of games. The $2 \cdot g$ subsequent lines describes a Happy Ladybugs game in the following format:

- The first line contains an integer, n , denoting the number of cells on the board.
- The second line contains a string, b , describing the n cells of the board.

Constraints

- $1 \leq g \leq 100$
- $1 \leq n \leq 100$
- It is guaranteed that string b consists of underscores and/or uppercase English alphabetic letters (i.e., $_$ and A through Z).

Output Format

For each game, print YES on a new line if it is possible to make all the ladybugs *happy*; otherwise, print NO.

Sample Input 0

```
4
7
RBY_YBR
6
X_Y__X
2
_
6
B_RRBR
```

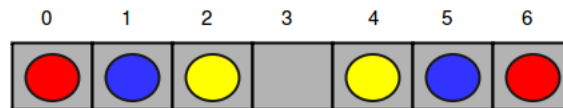
Sample Output 0

YES
NO
YES
YES

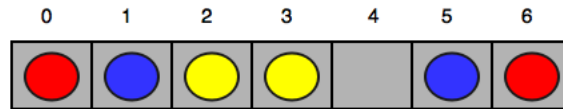
Explanation 0

The first three games of Happy Ladybugs are explained below:

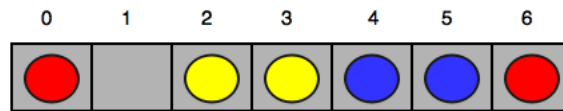
1. Initial board:



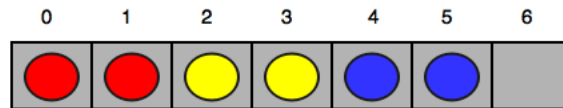
After the first move:



After the second move:



After the third move:



Now all the ladybugs are happy, so we print YES on a new line.

2. There is no way to make the ladybug having color Y happy, so we print NO on a new line.

3. There are no unhappy ladybugs, so we print YES on a new line.

f t in

Submissions: 7068

Max Score: 30

Difficulty: Easy

Rate This Challenge:

☆☆☆☆☆

More

Current Buffer (saved locally, editable) 🔗 ↺

Java 7

```
1 import java.io.*;
2 import java.util.*;
3 import java.text.*;
4 import java.math.*;
5 import java.util.regex.*;
6
7 public class Solution {
8
9     public static void main(String[] args) {
10         Scanner in = new Scanner(System.in);
11         int Q = in.nextInt();
12         for(int a0 = 0; a0 < Q; a0++){
13             int n = in.nextInt();
14             String b = in.next();
15         }
```

```
16 | }  
17 | }  
18 |
```

Line: 1 Col: 1

 [Upload Code as File](#)☐ Test against custom input[Run Code](#)[Submit Code](#)

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