Chef and digits of a number Problem Code: **LONGSEQ**

Chef has a number **D** containing only digits 0's and 1's. He wants to make the number to have all the digits same. For that, he will change **exactly** one digit, i.e. from 0 to 1 or from 1 to 0. If it is possible to make all digits equal (either all 0's or all 1's) by flipping exactly 1 digit then output "Yes", else print "No" (quotes for clarity)

Input

The first line will contain an integer **T** representing the number of test cases.

Each test case contain a number made of only digits 1's and 0's on newline

---

Output

Print T lines with a "Yes" or a "No", depending on whether its possible to make it all 0s or 1s or not.

Constraints

Subtask #1: (40 points)

- **1 ≤ T ≤ 50**
- **1 ≤ Length of the number D ≤ 50**

Subtask #2: (60 points)

- **1 ≤ T ≤ 10**
- **1 ≤ Length of the number D ≤ 10^5**

Example

Input:

```
2

101

11
```

Output:

```
Yes

No
```

Explanation

Example case 1. In 101, the 0 can be flipped to make it all 1..

Example case 2. No matter whichever digit you flip, you will not get the desired string.