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Chef and digits of a number

Problem code: LONGSEQ

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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)

- $1 \leq T \leq 50$
- $1 \leq \text{Length of the number } D \leq 50$

Subtask #2: (60 points)

- $1 \leq T \leq 10$
- $1 \leq \text{Length of the number } D \leq 10^5$

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.

Author: chandubaba

Tester: dpraveen_admin

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Time Limit: 1 sec

Source Limit: 50000 Bytes

Languages: ADA, ASM, BASH, BF, C, C99 strict, CAML, CLOJ, CLPS, CPP 4.3.2, CPP 4.9.2, CPP14, CS2, D, ERL, FORT, FS, GO, HASK, ICK, ICON, JAVA, JS, LISP clisp, LISP sbcl, LUA, NEM, NICE, NODEJS, PAS fpc, PAS gpc, PERL, PERL6, PHP, PIKE, PRLG, PYPY, PYTH, PYTH 3.4, RUBY, SCALA, SCM chicken, SCM guile, SCM qobi, ST, TCL, TEXT, WSPC

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