Is It Valid

HackerRank

Problem Statement

Given a string S containing just the characters 0 and 1, determine if the input string is valid.

An input string is valid if the string is empty after doing some operatios. The available operations are:

1. 0 can delete its previous available character 1 along with itself. If there is no 1 available to delete, it will not delete itself.
2. 1 can delete its previous available character 0 along with itself. If there is no 0 available to delete, it will not delete itself.

Note: You need to solve it using STL Stack or Queue only.

Input Format

- First line will contain T, the number of test cases.
- Next T lines will contain the string S.

Constraints

1. $1 \leq T \leq 1000$
2. $1 \leq |S| \leq 1000$. Here $|S|$ means the length of the string.

Output Format

- Output **YES** if the string is valid, otherwise **NO**.

Sample Input 0

```
10
0011
1010
1100
0101
0001
0111
0110
100101
1110010
0001011011
```

Sample Output 0

```
YES
YES
YES
YES
NO
NO
YES
YES
```

```
NO
YES
```