All Contests > Assignment 02 | Basic Data Structures | Batch 04 > Elimination

# Elimination

Problem Submissions Leaderboard Discussions

# **Problem Statement**

You will be given a binary string S (A binary string is a string which contains only 0 and 1) in which every 1 will eliminate its previously adjacent 0 and itself. After an elimination, if another elimination is possible, it will continue until no further eliminations can be made.

For example, if the sequence is 100110110, then the 3rd and 4th elements, as well as the 6th and 7th elements, will be eliminated, resulting in the string 10110 (10 01 1 01 10 - Bold values are eliminated). After that, the 2nd and 3rd elements will be eliminated, resulting in the string 110 (1 01 10 - Bold values are eliminated). After that, no further eliminations can occur.

You need to determine whether the string will be empty after all eliminations.

## **Input Format**

- ullet First line will contain  $oldsymbol{T}$ , the number of test cases.
- Each test case will contain the string S.

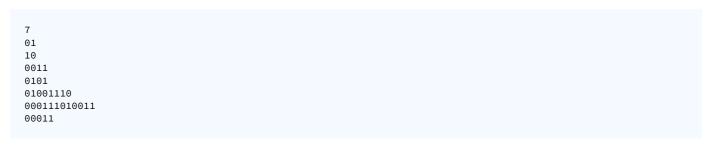
#### Constraints

- 1.  $1 \le T \le 10^3$
- 2.  $1 \le |S| \le 10^4$

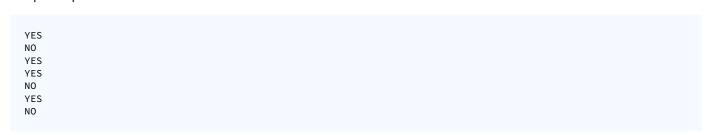
### **Output Format**

• For each test case output YES if the string is empty after all eliminations, NO otherwise.

## Sample Input 0



# Sample Output 0



```
Rate This Challenge:
                                                                                    More
                                                                                                 50 | o
                                                                         C++20
  1 v#include <bits/stdc++.h>
  2
     using namespace std;
   4
   5
   6
   7
     int main()
   8 ▼{
   9
          // Write your code here
  10
          return 0;
  11
     }
  12
  13
                                                                                                Line: 1 Col: 1
<u>♣ Upload Code as File</u> Test against custom input
                                                                                  Run Code
```

Difficulty: Easy

Interview Prep | Blog | Scoring | Environment | FAQ | About Us | Support | Careers | Terms Of Service | Privacy Policy |