CODECHEF
A *Directi* Educational Initiative

《 CODECHEF Certified 》
Data Structure & Algorithms Programme (CCDSAP)

EXAM DATE **26** **AUGUST 2018**

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Bear and Segment 01 | Problem Code: SEGM01

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Bear Limak has a string **S**. Each character of **S** is a digit '0' or '1'.

Help Limak and check if all the '1' digits form a single non-empty segment (consecutive subsequence) in the string. For each test case, print "YES" or "NO" accordingly.

Input

The first line of the input contains an integer **T** denoting the number of test cases. The description of **T** test cases follows.

The only line of each test case contains one string **S**, consisting of digits '0' and '1' only.

Output

For each test case, output a single line containing the answer — "YES" if all the '1' digits form a single non-empty segment, and "NO" otherwise. Don't print the quotes.

Constraints

- $1 \le T \le 10$
- $1 \le |S| \le 10^5$ (here, $|S|$ denotes the length of **S**)

Subtasks

- Subtask #1 (50 points): $1 \le |S| \le 50$
- Subtask #2 (50 points): Original constraints.

Example

```
Input:
6
001111110
```

```
101111111111
```

Output:
```
YES
NO
NO
YES
NO
NO
```

Explanation

The answer is "YES" for strings 001111110 and 1111.

The answer is "NO" for 00110011 because the '1' digits form two disjoint segments (while they should all be consecutive, with no '0' digits between them).

The answer is "NO" for 000 because the segment formed by the '1' digits must be non-empty (as written in the statement).

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Editorial:	https://discuss.codechef.com/problems/SEGM01
Tags:	cakewalk, errichto, linear-search, ltime47
Date Added:	29-04-2017
Time Limit:	1 secs
Source Limit:	50000 Bytes
Languages:	C, CPP14, JAVA, PYTH, PYTH 3.5, PYPY, CS2, PAS fpc, PAS gpc, RUBY, PHP, GO, NODEJS, HASK, SCALA, D, PERL, FORT, WSPC, ADA, CAML, ICK, BF, ASM, CLPS, PRLG, ICON, SCM qobi, PIKE, ST, NICE, LUA, BASH, NEM, LISP sbcl, LISP clisp, SCM guile, JS, ERL, TCL, PERL6, TEXT, SCM chicken, CLOJ, FS

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CodeChef - A Platform for Aspiring Programmers

CodeChef was created as a platform to help programmers make it big in the world of algorithms, **computer programming** and **programming contests**. At CodeChef we work hard to revive the geek in you by hosting a **programming contest** at the start of the month and another smaller programming challenge in the middle of the month. We also aim to have training sessions and discussions related to **algorithms**, **binary search**, technicalities like **array size** and the likes. Apart from providing a platform for **programming competitions**, CodeChef also has various algorithm tutorials and forum discussions to help those who are new to the world of **computer programming**.

Practice Section - A Place to hone your 'Computer Programming Skills'

Try your hand at one of our many practice problems and submit your solution in a language of your choice. Our **programming contest** judge accepts solutions in over 35+ programming languages. Preparing for coding contests were never this much fun! Receive points, and move up through the CodeChef ranks. Use our practice section to better prepare yourself for the multiple **programming challenges** that take place through-out the month on CodeChef.

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Here is where you can show off your **computer programming skills**. Take part in our 10 day long monthly coding contest and the shorter format Cook-off **coding contest**. Put yourself up for recognition and win great prizes. Our **programming contests** have prizes worth up to INR 20,000 (for Indian Community), $700 (for Global Community) and lots more CodeChef goodies up for grabs.

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Problem Setting	Challenge	
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