Problem

Discussions

Editorial 🖰

Prepare

Separate the Numbers *

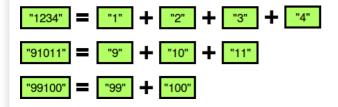
Submissions

Leaderboard A numeric string, $m{s}$, is beautiful if it can be split into a sequence of two or more positive integers, $m{a}[1], m{a}[2], \dots, m{a}[n]$,

satisfying the following conditions:

- 1. a[i] a[i-1] = 1 for any $1 < i \le n$ (i.e., each element in the sequence is 1 more than the previous element).
- 2. No a[i] contains a leading zero. For example, we can split s=10203 into the sequence $\{1,02,03\}$, but it is not beautiful because $\mathbf{02}$ and $\mathbf{03}$ have leading zeroes.
- 3. The contents of the sequence cannot be rearranged. For example, we can split s = 312 into the sequence $\{3, 1, 2\}$, but it is not beautiful because it breaks our first constraint (i.e., $1-3 \neq 1$).

The diagram below depicts some beautiful strings:



Perform \boldsymbol{q} queries where each query consists of some integer string \boldsymbol{s} . For each query, print whether or not the string is beautiful on a new line. If it is beautiful, print YES x, where x is the first number of the increasing sequence. If there are multiple such values of **x**, choose the smallest. Otherwise, print NO.

Function Description

Complete the separateNumbers function in the editor below.

separateNumbers has the following parameter:

• s: an integer value represented as a string

- string: Print a string as described above. Return nothing.

Input Format

The first line contains an integer \mathbf{q} , the number of strings to evaluate.

Each of the next q lines contains an integer string s to query.

Constraints

- $1 \le q \le 10$
- $1 \le |s| \le 32$
- $s[i] \in [0-9]$

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Difficulty	Easy
Max Score	100
Submitted By	5388
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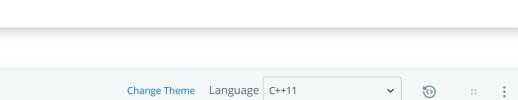
RATE THIS CHALLENGE



MORE DETAILS







#include <bits/stdc++.h> using namespace std; string ltrim(const string &); string rtrim(const string &); * Complete the 'separateNumbers' function below. * The function accepts STRING s as parameter.

```
void separateNumbers(string s) {
14
    }
   int main()
        string q_temp;
         getline(cin, q_temp);
        int q = stoi(ltrim(rtrim(q_temp)));
        for (int q_itr = 0; q_itr < q; q_itr++) {
            string s;
            getline(cin, s);
            separateNumbers(s);
                                                                      Line: 56 Col: 1
                                                            Run Code
                                                                          Submit Code

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                   Test against custom input
```

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