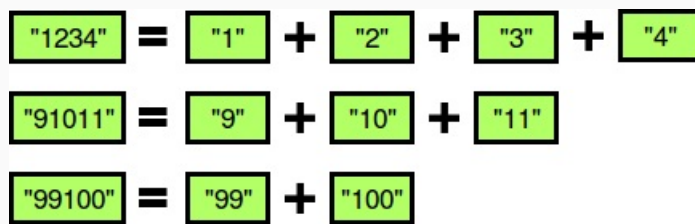


A numeric string,  $s$ , is *beautiful* if it can be split into a sequence of two or more positive integers,  $a[1], a[2], \dots, a[n]$ , satisfying the following conditions:

1.  $a[i] - a[i - 1] = 1$  for any  $1 < i \leq n$  (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 **02** and **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:



You must perform  $q$  queries where each query consists of some integer string  $s$ . For each query, print whether or not the string is beautiful on a new line. If it's 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. It should print a string as described above.

`separateNumbers` has the following parameter:

- $s$ : an integer value represented as a string

### Input Format

The first line contains an integer  $q$ , the number of strings to evaluate.  
Each of the next  $q$  lines contains an integer string  $s$  to query.

### Constraints

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

### Output Format

For each query, print its answer on a new line (i.e., either YES  $x$  where  $x$  is the smallest first number of the increasing sequence, or NO).

### Sample Input 0

```
7
1234
91011
99100
101103
010203
13
1
```

### Sample Output 0

```
YES 1
YES 9
```

YES 99  
NO  
NO  
NO  
NO

### Explanation 0

The first three numbers are beautiful (see the diagram above). The remaining numbers are not beautiful:

- For  $s = 101103$ , all possible splits violate the first and/or second conditions.
- For  $s = 010203$ , it starts with a zero so all possible splits violate the second condition.
- For  $s = 13$ , the only possible split is  $\{1, 3\}$ , which violates the first condition.
- For  $s = 1$ , there are no possible splits because  $s$  only has one digit.

### Sample Input 1

4  
99910001001  
7891011  
9899100  
999100010001

### Sample Output 1

YES 999  
YES 7  
YES 98  
NO