





HackerRank Prepare > Algorithms > Strings > Separate the Numbers

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

```
int q = sc.nextInt();
              for (int tc = 0; tc < q; tc++) {
                  String s = sc.next();
                 long result = solve(s);
                  System.out.println(result > 0 ? "YES " + result : "NO");
14
             sc.close();
         static long solve(String s) {
18 V
             if (s.charAt(0) == '0') {
19 ٧
20
                 return -1;
22
             for (int length = 1; length * 2 <= s.length(); length++) {</pre>
23 V
                 long firstNumber = Long.parseLong(s.substring(0, length));
24
25
                 StringBuilder sequence = new StringBuilder():
                                                                           Line: 39 Col: 1
```

.†, Upload Code as File

Test against custom input

Run Code

Submit Code

Congratulations

You solved this challenge. Would you like to challenge your friends? | f | in





Next Challenge





























