443. String Compression

Given an array of characters, compress it in-place (https://en.wikipedia.org/wiki/In-place_algorithm).

The length after compression must always be smaller than or equal to the original array.

Every element of the array should be a **character** (not int) of length 1.

After you are done modifying the input array in-place (https://en.wikipedia.org/wiki/In-place_algorithm), return the new length of the array.

Follow up:

Could you solve it using only O(1) extra space?

Example 1:

```
Input:
["a","a","b","b","c","c","c"]

Output:
Return 6, and the first 6 characters of the input array should be: ["a","2","b","2","c","3"]

Explanation:
"aa" is replaced by "a2". "bb" is replaced by "b2". "ccc" is replaced by "c3".
```

Example 2:

```
Input:
["a"]
Output:
Return 1, and the first 1 characters of the input array should be: ["a"]
Explanation:
Nothing is replaced.
```

Example 3:

Note:

- 1. All characters have an ASCII value in [35, 126].
- 2. $1 \le len(chars) \le 1000$.