5824. Largest Number After Mutating Substring

My Submissions (/contest/weekly-contest-251/problems/largest-number-after-mutating-substring/submissions/)

Back to Contest (/contest/weekly-contest-251/)

You are given a string `num`, which represents a large integer. You are also given a **0-indexed** integer array `change` of length `10` that maps each digit `0–9` to another digit. More formally, digit `d` maps to digit `change[d]`.

You may choose to **mutate** any substring of `num`. To mutate a substring, replace each digit `num[i]` with the digit it maps to in `change` (i.e. replace `num[i]` with `change[num[i]]`).

Return *a string representing the **largest** possible integer after **mutating** (or choosing not to) any substring of* `num`.

A **substring** is a contiguous sequence of characters within the string.

User Accepted:	3851
User Tried:	4931
Total Accepted:	3967
Total Submissions:	14046
Difficulty:	Medium

Example 1:

```
Input: num = "132", change = [9,8,5,0,3,6,4,2,6,8]
Output: "832"
Explanation: Replace the substring "1":
- 1 maps to change[1] = 8.
Thus, "132" becomes "832".
"832" is the largest number that can be created, so return it.
```

Example 2:

```
Input: num = "021", change = [9,4,3,5,7,2,1,9,0,6]
Output: "934"
Explanation: Replace the substring "021":
- 0 maps to change[0] = 9.
- 2 maps to change[2] = 3.
- 1 maps to change[1] = 4.
Thus, "021" becomes "934".
"934" is the largest number that can be created, so return it.
```

Example 3:

```
Input: num = "5", change = [1,4,7,5,3,2,5,6,9,4]
Output: "5"
Explanation: "5" is already the largest number that can be created, so return it.
```

Constraints:

- `1 <= num.length <= 10`^{5}
- `num` consists of only digits `0–9`.

- change.length == 10
- 0 <= change[d] <= 9

JavaScript ▼

```javascript
const maximumNumber = (s, change) => {
    let n = s.length;
    let a = s.split("");
    let ch = false;
    for (let i = 0; i < n; ) {
        let v = a[i] - '0';
        let rep = change[v];
        // pr(rep, v)
        if (rep < v) {
            if (a.join("") != s) break;
            i++;
        } else {
            a[i] = rep + '';
            ch = true;
            i++;
        }
        // pr(a);
    }
    return a.join("");
};
```

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