o operations

x-to-zero/)

6097. Match Substring After Replacement

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You are given two strings s and sub. You are also given a 2D character array mappings where mappings[i] = $[old_i, new_i]$ indicates that you may **replace** any number of old_i characters of sub with new_i . Each character in sub **cannot** be replaced more than once.

Return true if it is possible to make sub a substring of s by replacing zero or more characters according to mappings. Otherwise, return false.

A **substring** is a contiguous non-empty sequence of characters within a string.

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Hard

Example 1:

```
Input: s = "fool3e7bar", sub = "leet", mappings = [["e","3"],["t","7"],["t","8"]]
Output: true
Explanation: Replace the first 'e' in sub with '3' and 't' in sub with '7'.
Now sub = "l3e7" is a substring of s, so we return true.
```

Example 2:

```
Input: s = "fooleetbar", sub = "f001", mappings = [["o","0"]]
Output: false
Explanation: The string "f001" is not a substring of s and no replacements can be made.
Note that we cannot replace '0' with 'o'.
```

Example 3:

```
Input: s = "Fool33tbaR", sub = "leetd", mappings = [["e","3"],["t","7"],["t","8"],["d","b"],["p","b"]]
Output: true
Explanation: Replace the first and second 'e' in sub with '3' and 'd' in sub with 'b'.
Now sub = "l33tb" is a substring of s, so we return true.
```

Constraints:

- 1 <= sub.length <= s.length <= 5000
- 0 <= mappings.length <= 1000
- mappings[i].length == 2
- old_i != new_i
- s and sub consist of uppercase and lowercase English letters and digits.
- $\mathrm{old}_{\mathtt{i}}$ and $\mathrm{new}_{\mathtt{i}}$ are either uppercase or lowercase English letters or digits.

```
JavaScript
                                                                                                                                   \varepsilon
                                                                                                                             ψ
    let ma;
    const matchReplacement = (ss, s, mappings) => {
2 •
3
        let n = ss.length, se = new Set(), q = [s];
 4
        ma = build(mappings);
5 •
        for (let i = 0; i < n; i++) {
             for (let j = i; j < n; j++) {
 6 ،
 7
                  let e = ss.slice(i, j + 1);
                  if (e.length == s.length) se.add(e);
 8
9
10
11 ,
         for (const t of se) {
12
             if (canMake(s, t)) return true;
13
        }
14
         return false;
15
    };
16
    const canMake = (s, t) \Rightarrow {// s \rightarrow t}
17 ▼
18
        let n = s.length;
19 ▼
        for (let i = 0; i < n; i++) {
```

```
20
            if (s[i] == t[i]) continue;
             if (!ma.has(s[i])) return false;
21
22
            let a = ma.get(s[i]);
23
            if (a.indexOf(t[i]) == -1) return false;
24
        }
25
        return true;
26
    };
27
28 ▼
    const build = (mappings) => {
29
        let m = new Map();
        for (const [x, y] of mappings) {
30 •
31
             if (!m.has(x)) m.set(x, []);
32
            m.get(x).push(y);
33
        }
34
        return m;
35
    };
```

 $\ \square$ Custom Testcase

Use Example Testcases

Submission Result: Accepted (/submissions/detail/719780178/) 2

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