

2301. Match Substring After Replacement

Description

You are given two strings `s` and `sub`. You are also given a 2D character array `mappings` where `mappings[i] = [oldi, newi]` indicates that you may perform the following operation **any** number of times:

- **Replace** a character `oldi` of `sub` with `newi`.

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.

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 = "f00l", mappings = [["o","0"]]
Output: false
Explanation: The string "f00l" 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`
- `oldi != newi`
- `s` and `sub` consist of uppercase and lowercase English letters and digits.
- `oldi` and `newi` are either uppercase or lowercase English letters or digits.

