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745. Prefix and Suffix Search

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Design a special dictionary with some words that searches the words in it by a prefix and a suffix.

Implement the `WordFilter` class:

• `WordFilter(string[] words)` Initializes the object with the `words` in the dictionary.

• `f(string prefix, string suffix)` Returns *the index of the word in the dictionary*, which has the prefix `prefix` and the suffix `suffix` . If there is more than one valid index, return **the largest** of them. If there is no such word in the dictionary, return `-1` .

Example 1:

Input

["WordFilter", "f"]
[[["apple"]], ["a", "e"]]

Output

[null, 0]

Explanation

`WordFilter wordFilter = new WordFilter(["apple"]);`
`wordFilter.f("a", "e");` // return 0, because the word at index 0 has prefix = "a" and suffix = "e".

Constraints:

• `1 <= words.length <= 15000`

• `1 <= words[i].length <= 10`

• `1 <= prefix.length, suffix.length <= 10`

• `words[i]`, `prefix` and `suffix` consist of lower-case English letters only.

• At most `15000` calls will be made to the function `f` .

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```
class WordFilter {  
    public WordFilter(String[] words) {  
    }  
    public int f(String prefix, String suffix) {  
    }  
}
```

```
/**  
 * Your WordFilter object will be instantiated and called as such:  
 * WordFilter obj = new WordFilter(words);  
 * int param_1 = obj.f(prefix,suffix);  
 */
```

Problems

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