Design a special dictionary which has some words and allows you to search 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.