

745. Prefix and Suffix Search

Description

Design a special dictionary 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 pref, string suff)` Returns *the index of the word in the dictionary*, which has the prefix `pref` and the suffix `suff`. 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:

- $1 \leq \text{words.length} \leq 10^4$
- $1 \leq \text{words}[i].\text{length} \leq 7$
- $1 \leq \text{pref.length}, \text{suff.length} \leq 7$
- `words[i]`, `pref` and `suff` consist of lowercase English letters only.
- At most 10^4 calls will be made to the function `f`.

