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Description

Solution

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1268. Search Suggestions System

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You are given an array of strings `products` and a string `searchWord`.

Design a system that suggests at most three product names from `products` after each character of `searchWord` is typed. Suggested products should have common prefix with `searchWord`. If there are more than three products with a common prefix return the three lexicographically minimums products.

Return a list of lists of the suggested products after each character of `searchWord` is typed.

Example 1:

**Input:** `products = ["mobile","mouse","moneypot","monitor","mousepad"], searchWord = "mouse"`

**Output:** `[["mobile","moneypot","monitor"],["mobile","moneypot","monitor"],["mouse","mousepad"],["mouse","mousepad"],["mouse","mousepad"]]`

**Explanation:** `products` sorted lexicographically = `["mobile","moneypot","monitor","mouse","mousepad"]`  
After typing `m` and `mo` all products match and we show user `["mobile","moneypot","monitor"]`  
After typing `mou`, `mous` and `mouse` the system suggests `["mouse","mousepad"]`

Example 2:

**Input:** `products = ["havana"], searchWord = "havana"`

**Output:** `[["havana"],["havana"],["havana"],["havana"],["havana"],["havana"]]`

Example 3:

**Input:** `products = ["bags","baggage","banner","box","cloths"], searchWord = "bags"`

**Output:** `[["baggage","bags","banner"],["baggage","bags","banner"],["bags"],["bags"]]`

Constraints:

- `1 <= products.length <= 1000`
- `1 <= products[i].length <= 3000`
- `1 <= sum(products[i].length) <= 2 * 104`
- All the strings of `products` are **unique**.
- `products[i]` consists of lowercase English letters.
- `1 <= searchWord.length <= 1000`
- `searchWord` consists of lowercase English letters.

Accepted130,679Submissions198,972

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Yes

No

Companies

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