

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 a common prefix with the current character of `searchWord` (and the previous characters).

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"]]`
Explanation: The only word `"havana"` will be always suggested while typing the search word.

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.

Seen this question in a real interview before? 1/4

☒ Yes ☐ No

Accepted **283.7K** Submissions **433.6K** Acceptance Rate **65.4%**

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