

Description

Solution

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Submissions

C#

1268. Search Suggestions System

Medium

1893

118

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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:

```

1 public class Solution {
2     public IList<IList<
SuggestedProducts(string
products, string search
3         var suggestions
List<IList<string>>());
4         var suggestion
List<string>();
5         StringBuilder
currentSearch = new
StringBuilder();
6         Array.Sort(prod
7
8         foreach(char c
searchWord){
9
10            currentSearch.Append(c
suggestion
List<string>());
11
12            foreach(str
product in products){
13                if(suggestion.Count >=
bre
14                    }
15                string
productBatch =
product.Substring(0,
Math.Min(currentSearch.
product.Length));
17

```

Testcase

Run Code Result

Accepted

Runtime: 136 ms

Your input

["mobile","mouse","mouse"]

Output

[[["mobile","moneypot","monitor"],["mobile","moneypot","monitor"],["mouse","mousepad"],["mouse","mousepad"],["mouse","mousepad"]]]

Expected

[[["mobile","moneypot","monitor"],["mobile","moneypot","monitor"],["mouse","mousepad"],["mouse","mousepad"],["mouse","mousepad"]]]

Console

Use Example Testcase

Run Code

Submit

Problems

Pick One

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