Search Suggestions System

Try to solve the Search Suggestions System problem.

We'll cover the following

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- Statement
- Examples
- Understand the problem
- Figure it out!
- Try it yourself

Statement

Given an array of strings called products and a word to search, design a system that, when each character of the searched word is typed, suggests at most three product names from products. Suggested products should share a common prefix with the searched word. If more than three products exist with a common prefix, return the three product names that appear first in lexicographical order.

Return the suggested products, which will be a list of lists after each character of searched word is typed.

Constraints:

• $1 \leq \mathsf{products.length} \leq 1000$

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• $1 \leq \texttt{products[i].length} \leq 3000$



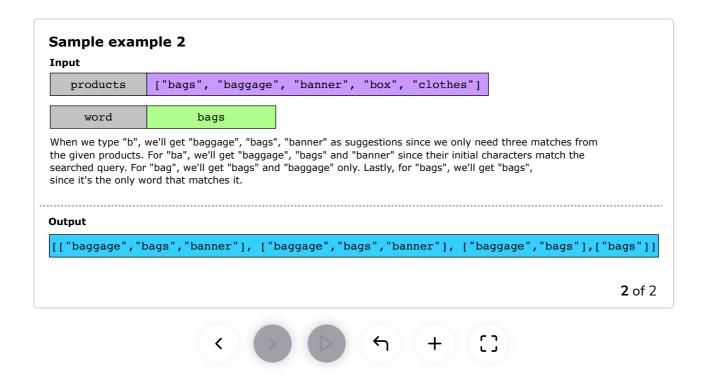
• $1 \leq extstyle{sum(products[i].length)} \leq 2 imes 10^3$

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- All the strings of products are unique.
- products[i] consists of lowercase English letters.

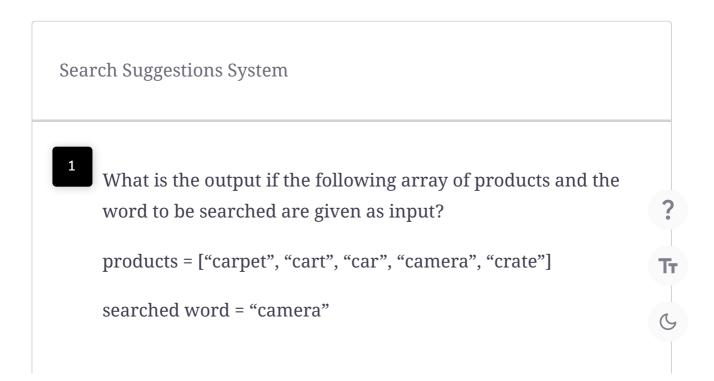
- $1 \leq \text{searched word.length} \leq 1000$
- The searched word consists of lowercase English letters.

Examples



Understand the problem

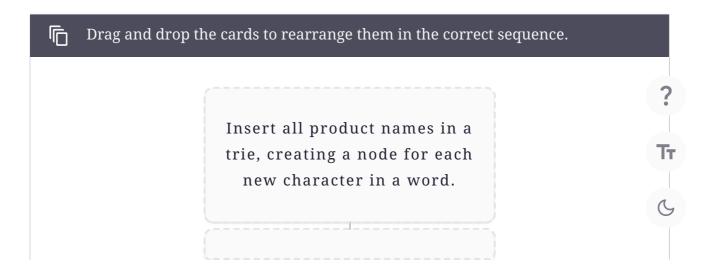
Let's take a moment to make sure you've correctly understood the problem. The quiz below helps you check if you're solving the correct problem:

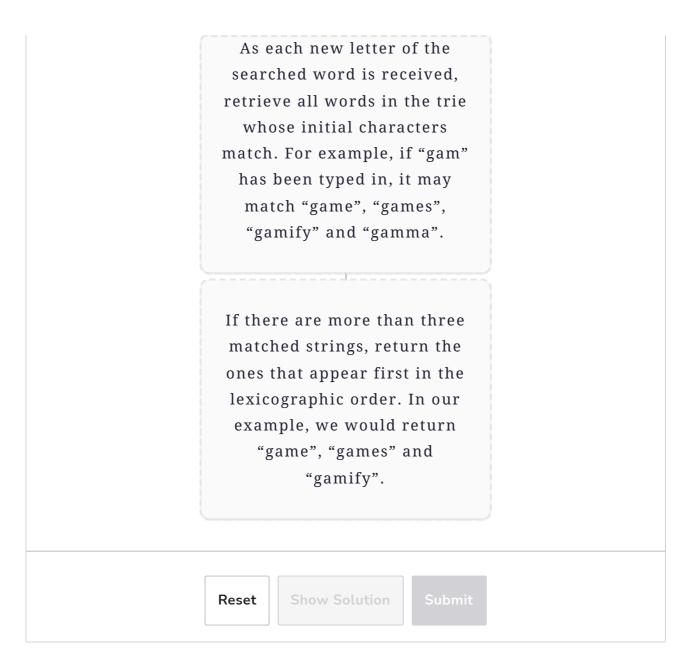


```
[["camera", "car", "carpet"], ["camera"], ["camera"],
   ["camera"], ["camera"]]
   [["camera", "car", "carpet"], ["camera"], ["camera"],
B)
   ["camera"], ["camera"]]
   [["camera", "car", "carpet"], ["camera", "car", "carpet"],
C)
   ["camera"], ["camera"], ["camera"]]
   [["camera", "car", "carpet"], ["camera", "car", "carpet"],
D)
   ["camera"]]
                       Question 1 of 2
                        0 attempted
                       Reset Quiz C
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Figure it out!

We have a game for you to play. Rearrange the logical building blocks to develop a clearer understanding of how to solve this problem.





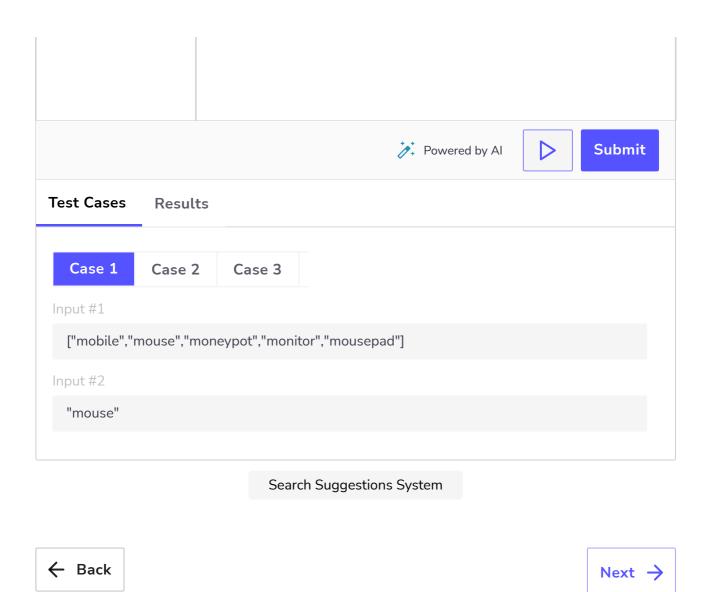
Try it yourself





coding playground. You'll need the provided supporting code to implement your solution.

```
👙 Java
                                                                    G
                         import java.util.*;
                      1
SearchSuggestio...
                      2
                         class SearchSuggestion {
                      3
                             public List<List<String>> suggestedProducts(5,ring)
Node.java
                      4
                                  // Write your code here
                      5
                                  return null;
                      6
                      7
                             }
                      8
                         }
```



Solution: Implement T...

Mark as Completed

Solution: Search Sugg...

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