Problem 524: Longest Word in Dictionary through Deleting

Problem Information

Difficulty: Medium
Acceptance Rate: 52.30%
Paid Only: No
Tags: Array, Two Pointers, String, Sorting

Problem Description

Given a string `s` and a string array `dictionary`, return _the longest string in the dictionary that can be formed by deleting some of the given string characters_. If there is more than one possible result, return the longest word with the smallest lexicographical order. If there is no possible result, return the empty string.

Example 1:

Input: s = "abpcplea", dictionary = ["ale","apple","monkey","plea"] **Output:** "apple"

Example 2:

Input: s = "abpcplea", dictionary = ["a","b","c"] **Output:** "a"

Constraints:

* `1 <= s.length <= 1000` * `1 <= dictionary.length <= 1000` * `1 <= dictionary[i].length <= 1000` * `s` and `dictionary[i]` consist of lowercase English letters.

Code Snippets

C++:

```
class Solution {
public:
```

```cpp
    string findLongestWord(string s, vector<string>& dictionary) {

    }
};
```

Java:

```java
class Solution {
public String findLongestWord(String s, List<String> dictionary) {

}
}
```

Python3:

```python
class Solution:
def findLongestWord(self, s: str, dictionary: List[str]) -> str:
```