

# Problem 1233: Remove Sub-Folders from the Filesystem

## Problem Information

**Difficulty:** Medium

**Acceptance Rate:** 78.63%

**Paid Only:** No

**Tags:** Array, String, Depth-First Search, Trie

## Problem Description

Given a list of folders `folder` , return \_the folders after removing all\*\*sub- folders\*\* in those folders\_. You may return the answer in \*\*any order\*\*.

If a `folder[i]` is located within another `folder[j]` , it is called a \*\*sub- folder\*\* of it. A sub-folder of `folder[j]` must start with `folder[j]` , followed by a `"/` . For example, `"/a/b"` is a sub-folder of `"/a/"` , but `"/b/"` is not a sub-folder of `"/a/b/c/"` .

The format of a path is one or more concatenated strings of the form: `"/` followed by one or more lowercase English letters.

\* For example, `"/leetcode"` and `"/leetcode/problems"` are valid paths while an empty string and `"/"` are not.

**Example 1:**

**Input:** folder = ["/a", "/a/b", "/c/d", "/c/d/e", "/c/f"] **Output:** ["/a", "/c/d", "/c/f"] **Explanation:** Folders "/a/b" is a subfolder of "/a" and "/c/d/e" is inside of folder "/c/d" in our filesystem.

**Example 2:**

**Input:** folder = ["/a", "/a/b/c", "/a/b/d"] **Output:** ["/a"] **Explanation:** Folders "/a/b/c" and "/a/b/d" will be removed because they are subfolders of "/a".

**Example 3:**

**\*\*Input:\*\*** folder = ["/a/b/c", "/a/b/ca", "/a/b/d"] **\*\*Output:\*\*** ["/a/b/c", "/a/b/ca", "/a/b/d"]

**\*\*Constraints:\*\***

\* `1 <= folder.length <= 4` \* `2 <= folder[i].length <= 100` \* `folder[i]` contains only lowercase letters and `/`. \* `folder[i]` always starts with the character `/`. \* Each folder name is **unique**.

## Code Snippets

**C++:**

```
class Solution {
public:
vector<string> removeSubfolders(vector<string>& folder) {
    }
};
```

**Java:**

```
class Solution {
public List<String> removeSubfolders(String[] folder) {
    }
}
```

**Python3:**

```
class Solution:
def removeSubfolders(self, folder: List[str]) -> List[str]:
```