

Problem 1452: People Whose List of Favorite Companies Is Not a Subset of Another List

Problem Information

Difficulty: Medium

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

Given the array

favoriteCompanies

where

favoriteCompanies[i]

is the list of favorites companies for the

ith

person (

indexed from 0

).

Return the indices of people whose list of favorite companies is not a

subset

of any other list of favorites companies

. You must return the indices in increasing order.

Example 1:

Input:

```
favoriteCompanies = [["leetcode", "google", "facebook"], ["google", "microsoft"], ["google", "facebook"], ["google"], ["amazon"]]
```

Output:

[0,1,4]

Explanation:

Person with index=2 has favoriteCompanies[2]=["google", "facebook"] which is a subset of favoriteCompanies[0]=["leetcode", "google", "facebook"] corresponding to the person with index 0. Person with index=3 has favoriteCompanies[3]=["google"] which is a subset of favoriteCompanies[0]=["leetcode", "google", "facebook"] and favoriteCompanies[1]=["google", "microsoft"]. Other lists of favorite companies are not a subset of another list, therefore, the answer is [0,1,4].

Example 2:

Input:

```
favoriteCompanies =  
[[["leetcode", "google", "facebook"], ["leetcode", "amazon"], ["facebook", "google"]]]
```

Output:

[0,1]

Explanation:

In this case favoriteCompanies[2]=["facebook", "google"] is a subset of favoriteCompanies[0]=["leetcode", "google", "facebook"], therefore, the answer is [0,1].

Example 3:

Input:

```
favoriteCompanies = [["leetcode"],["google"],["facebook"],["amazon"]]
```

Output:

```
[0,1,2,3]
```

Constraints:

```
1 <= favoriteCompanies.length <= 100
```

```
1 <= favoriteCompanies[i].length <= 500
```

```
1 <= favoriteCompanies[i][j].length <= 20
```

All strings in

```
favoriteCompanies[i]
```

are

distinct

.

All lists of favorite companies are

distinct

, that is, If we sort alphabetically each list then

```
favoriteCompanies[i] != favoriteCompanies[j].
```

All strings consist of lowercase English letters only.

Code Snippets

C++:

```
class Solution {
public:
vector<int> peopleIndexes(vector<vector<string>>& favoriteCompanies) {

}
};
```

Java:

```
class Solution {
public List<Integer> peopleIndexes(List<List<String>> favoriteCompanies) {

}
}
```

Python3:

```
class Solution:
def peopleIndexes(self, favoriteCompanies: List[List[str]]) -> List[int]:
```

Python:

```
class Solution(object):
def peopleIndexes(self, favoriteCompanies):
"""
:type favoriteCompanies: List[List[str]]
:rtype: List[int]
"""
```

JavaScript:

```
/**
 * @param {string[][]} favoriteCompanies
 * @return {number[]}
 */
var peopleIndexes = function(favoriteCompanies) {

};
```

TypeScript:

```
function peopleIndexes(favoriteCompanies: string[][]): number[] {
```

```
};
```

C#:

```
public class Solution {  
    public IList<int> PeopleIndexes(IList<IList<string>> favoriteCompanies) {  
  
    }  
}
```

C:

```
/**  
 * Note: The returned array must be malloced, assume caller calls free().  
 */  
int* peopleIndexes(char*** favoriteCompanies, int favoriteCompaniesSize, int*  
favoriteCompaniesColSize, int* returnSize) {  
  
}
```

Go:

```
func peopleIndexes(favoriteCompanies [][][]string) []int {  
  
}
```

Kotlin:

```
class Solution {  
    fun peopleIndexes(favoriteCompanies: List<List<String>>): List<Int> {  
  
    }  
}
```

Swift:

```
class Solution {  
    func peopleIndexes(_ favoriteCompanies: [[String]]) -> [Int] {  
  
    }  
}
```

Rust:

```
impl Solution {
    pub fn people_indexes(favorite_companies: Vec<Vec<String>>) -> Vec<i32> {
        }
    }
}
```

Ruby:

```
# @param {String[][]} favorite_companies
# @return {Integer[]}
def people_indexes(favorite_companies)

end
```

PHP:

```
class Solution {

    /**
     * @param String[][] $favoriteCompanies
     * @return Integer[]
     */
    function peopleIndexes($favoriteCompanies) {

    }
}
```

Dart:

```
class Solution {
    List<int> peopleIndexes(List<List<String>> favoriteCompanies) {
        }
    }
```

Scala:

```
object Solution {
    def peopleIndexes(favoriteCompanies: List[List[String]]): List[Int] = {
        }
```

```
}
```

Elixir:

```
defmodule Solution do
  @spec people_indexes(favorite_companies :: [[String.t]]) :: [integer]
  def people_indexes(favorite_companies) do
    end
  end
```

Erlang:

```
-spec people_indexes(FavoriteCompanies :: [[unicode:unicode_binary()]]) ->
  [integer()].
people_indexes(FavoriteCompanies) ->
  .
```

Racket:

```
(define/contract (people-indexes favoriteCompanies)
  (-> (listof (listof string?)) (listof exact-integer?))
)
```

Solutions

C++ Solution:

```
/*
 * Problem: People Whose List of Favorite Companies Is Not a Subset of Another
 * List
 *
 * Difficulty: Medium
 *
 * Tags: array, string, hash, sort
 *
 * Approach: Use two pointers or sliding window technique
 *
 * Time Complexity: O(n) or O(n log n)
 *
 * Space Complexity: O(n) for hash map
 */

class Solution {
```

```

public:
vector<int> peopleIndexes(vector<vector<string>>& favoriteCompanies) {

}
};

```

Java Solution:

```

/**
 * Problem: People Whose List of Favorite Companies Is Not a Subset of Another
List
 * Difficulty: Medium
 * Tags: array, string, hash, sort
 *
 * Approach: Use two pointers or sliding window technique
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(n) for hash map
 */

class Solution {
public List<Integer> peopleIndexes(List<List<String>> favoriteCompanies) {

}
}

```

Python3 Solution:

```

"""
Problem: People Whose List of Favorite Companies Is Not a Subset of Another
List
Difficulty: Medium
Tags: array, string, hash, sort

Approach: Use two pointers or sliding window technique
Time Complexity: O(n) or O(n log n)
Space Complexity: O(n) for hash map
"""

class Solution:
def peopleIndexes(self, favoriteCompanies: List[List[str]]) -> List[int]:
# TODO: Implement optimized solution

```

```
pass
```

Python Solution:

```
class Solution(object):
    def peopleIndexes(self, favoriteCompanies):
        """
        :type favoriteCompanies: List[List[str]]
        :rtype: List[int]
        """
```

JavaScript Solution:

```
/**
 * Problem: People Whose List of Favorite Companies Is Not a Subset of Another
 * List
 * Difficulty: Medium
 * Tags: array, string, hash, sort
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 * Time Complexity: O(n) or O(n log n)
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 */

/**
 * @param {string[][]} favoriteCompanies
 * @return {number[]}
 */
var peopleIndexes = function(favoriteCompanies) {

};
```

TypeScript Solution:

```
/**
 * Problem: People Whose List of Favorite Companies Is Not a Subset of Another
 * List
 * Difficulty: Medium
 * Tags: array, string, hash, sort
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 * Approach: Use two pointers or sliding window technique
```

```

* Time Complexity: O(n) or O(n log n)
* Space Complexity: O(n) for hash map
*/
function peopleIndexes(favoriteCompanies: string[][]): number[] {
}

```

C# Solution:

```

/*
* Problem: People Whose List of Favorite Companies Is Not a Subset of Another
List
* Difficulty: Medium
* Tags: array, string, hash, sort
*
* Approach: Use two pointers or sliding window technique
* Time Complexity: O(n) or O(n log n)
* Space Complexity: O(n) for hash map
*/
public class Solution {
    public IList<int> PeopleIndexes(IList<IList<string>> favoriteCompanies) {
        }
    }

```

C Solution:

```

/*
* Problem: People Whose List of Favorite Companies Is Not a Subset of Another
List
* Difficulty: Medium
* Tags: array, string, hash, sort
*
* Approach: Use two pointers or sliding window technique
* Time Complexity: O(n) or O(n log n)
* Space Complexity: O(n) for hash map
*/
/**
```

```

* Note: The returned array must be malloced, assume caller calls free().
*/
int* peopleIndexes(char*** favoriteCompanies, int favoriteCompaniesSize, int*
favoriteCompaniesColSize, int* returnSize) {

}

```

Go Solution:

```

// Problem: People Whose List of Favorite Companies Is Not a Subset of
Another List
// Difficulty: Medium
// Tags: array, string, hash, sort
//
// Approach: Use two pointers or sliding window technique
// Time Complexity: O(n) or O(n log n)
// Space Complexity: O(n) for hash map

func peopleIndexes(favoriteCompanies [][]string) []int {
}

```

Kotlin Solution:

```

class Solution {
    fun peopleIndexes(favoriteCompanies: List<List<String>>): List<Int> {
        }
    }

```

Swift Solution:

```

class Solution {
    func peopleIndexes(_ favoriteCompanies: [[String]]) -> [Int] {
        }
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```

Rust Solution:

```

// Problem: People Whose List of Favorite Companies Is Not a Subset of
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// Tags: array, string, hash, sort
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// Approach: Use two pointers or sliding window technique
// Time Complexity: O(n) or O(n log n)
// Space Complexity: O(n) for hash map

impl Solution {
    pub fn people_indexes(favorite_companies: Vec<Vec<String>>) -> Vec<i32> {
        }

    }
}

```

Ruby Solution:

```

# @param {String[][]} favorite_companies
# @return {Integer[]}
def people_indexes(favorite_companies)

end

```

PHP Solution:

```

class Solution {

    /**
     * @param String[][] $favoriteCompanies
     * @return Integer[]
     */
    function peopleIndexes($favoriteCompanies) {
        }

    }
}

```

Dart Solution:

```

class Solution {
    List<int> peopleIndexes(List<List<String>> favoriteCompanies) {
        }
}

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}

Scala Solution:

```
object Solution {
    def peopleIndexes(favoriteCompanies: List[List[String]]): List[Int] = {
        }
    }
}
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Elixir Solution:

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defmodule Solution do
  @spec people_indexes(favorite_companies :: [[String.t]]) :: [integer]
  def people_indexes(favorite_companies) do
    end
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[integer()].
people_indexes(FavoriteCompanies) ->
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