

Problem 2418: Sort the People

Problem Information

Difficulty: [Easy](#)

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

You are given an array of strings

names

, and an array

heights

that consists of

distinct

positive integers. Both arrays are of length

n

.

For each index

i

,

names[i]

and

heights[i]

denote the name and height of the

i

th

person.

Return

names

sorted in

descending

order by the people's heights

.

Example 1:

Input:

names = ["Mary", "John", "Emma"], heights = [180, 165, 170]

Output:

["Mary", "Emma", "John"]

Explanation:

Mary is the tallest, followed by Emma and John.

Example 2:

Input:

```
names = ["Alice", "Bob", "Bob"], heights = [155,185,150]
```

Output:

```
["Bob","Alice","Bob"]
```

Explanation:

The first Bob is the tallest, followed by Alice and the second Bob.

Constraints:

```
n == names.length == heights.length
```

```
1 <= n <= 10
```

```
3
```

```
1 <= names[i].length <= 20
```

```
1 <= heights[i] <= 10
```

```
5
```

```
names[i]
```

consists of lower and upper case English letters.

All the values of

```
heights
```

are distinct.

Code Snippets

C++:

```
class Solution {  
public:  
vector<string> sortPeople(vector<string>& names, vector<int>& heights) {  
  
}  
};
```

Java:

```
class Solution {  
public String[] sortPeople(String[] names, int[] heights) {  
  
}  
}
```

Python3:

```
class Solution:  
def sortPeople(self, names: List[str], heights: List[int]) -> List[str]:
```

Python:

```
class Solution(object):  
def sortPeople(self, names, heights):  
    """  
    :type names: List[str]  
    :type heights: List[int]  
    :rtype: List[str]  
    """
```

JavaScript:

```
/**  
 * @param {string[]} names  
 * @param {number[]} heights  
 * @return {string[]}  
 */  
var sortPeople = function(names, heights) {  
  
};
```

TypeScript:

```
function sortPeople(names: string[], heights: number[]): string[] {  
};
```

C#:

```
public class Solution {  
    public string[] SortPeople(string[] names, int[] heights) {  
  
    }  
}
```

C:

```
/**  
 * Note: The returned array must be malloced, assume caller calls free().  
 */  
char** sortPeople(char** names, int namesSize, int* heights, int heightsSize,  
int* returnSize) {  
  
}
```

Go:

```
func sortPeople(names []string, heights []int) []string {  
}
```

Kotlin:

```
class Solution {  
    fun sortPeople(names: Array<String>, heights: IntArray): Array<String> {  
    }  
}
```

Swift:

```
class Solution {  
    func sortPeople(_ names: [String], _ heights: [Int]) -> [String] {
```

```
}
```

```
}
```

Rust:

```
impl Solution {
    pub fn sort_people(names: Vec<String>, heights: Vec<i32>) -> Vec<String> {
        ...
    }
}
```

Ruby:

```
# @param {String[]} names
# @param {Integer[]} heights
# @return {String[]}
def sort_people(names, heights)

end
```

PHP:

```
class Solution {

    /**
     * @param String[] $names
     * @param Integer[] $heights
     * @return String[]
     */
    function sortPeople($names, $heights) {

    }
}
```

Dart:

```
class Solution {
    List<String> sortPeople(List<String> names, List<int> heights) {
        ...
    }
}
```

Scala:

```
object Solution {  
    def sortPeople(names: Array[String], heights: Array[Int]): Array[String] = {  
  
    }  
}
```

Elixir:

```
defmodule Solution do  
  @spec sort_people(names :: [String.t], heights :: [integer]) :: [String.t]  
  def sort_people(names, heights) do  
  
  end  
end
```

Erlang:

```
-spec sort_people(Names :: [unicode:unicode_binary()], Heights ::  
[integer()]) -> [unicode:unicode_binary()].  
sort_people(Names, Heights) ->  
.
```

Racket:

```
(define/contract (sort-people names heights)  
  (-> (listof string?) (listof exact-integer?) (listof string?))  
)
```

Solutions

C++ Solution:

```
/*  
 * Problem: Sort the People  
 * Difficulty: Easy  
 * 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<string> sortPeople(vector<string>& names, vector<int>& heights) {
}

};

}

```

Java Solution:

```

/**
 * Problem: Sort the People
 * Difficulty: Easy
 * 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 String[] sortPeople(String[] names, int[] heights) {

}
}

```

Python3 Solution:

```

"""
Problem: Sort the People
Difficulty: Easy
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 sortPeople(self, names: List[str], heights: List[int]) -> List[str]:

```

```
# TODO: Implement optimized solution
pass
```

Python Solution:

```
class Solution(object):
    def sortPeople(self, names, heights):
        """
        :type names: List[str]
        :type heights: List[int]
        :rtype: List[str]
        """

```

JavaScript Solution:

```
/**
 * Problem: Sort the People
 * Difficulty: Easy
 * 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
 */

/**
 * @param {string[]} names
 * @param {number[]} heights
 * @return {string[]}
 */
var sortPeople = function(names, heights) {

};
```

TypeScript Solution:

```
/**
 * Problem: Sort the People
 * Difficulty: Easy
 * 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
*/
function sortPeople(names: string[], heights: number[]): string[] {
};


```

C# Solution:

```

/*
 * Problem: Sort the People
 * Difficulty: Easy
 * 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 string[] SortPeople(string[] names, int[] heights) {
        return null;
    }
}


```

C Solution:

```

/*
 * Problem: Sort the People
 * Difficulty: Easy
 * 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().
 */


```

```
*/  
char** sortPeople(char** names, int namesSize, int* heights, int heightsSize,  
int* returnSize) {  
  
}
```

Go Solution:

```
// Problem: Sort the People  
// Difficulty: Easy  
// 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 sortPeople(names []string, heights []int) []string {  
  
}
```

Kotlin Solution:

```
class Solution {  
    fun sortPeople(names: Array<String>, heights: IntArray): Array<String> {  
          
    }  
}
```

Swift Solution:

```
class Solution {  
    func sortPeople(_ names: [String], _ heights: [Int]) -> [String] {  
          
    }  
}
```

Rust Solution:

```
// Problem: Sort the People  
// Difficulty: Easy  
// 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

impl Solution {
    pub fn sort_people(names: Vec<String>, heights: Vec<i32>) -> Vec<String> {
        }

    }
}

```

Ruby Solution:

```

# @param {String[]} names
# @param {Integer[]} heights
# @return {String[]}
def sort_people(names, heights)

end

```

PHP Solution:

```

class Solution {

    /**
     * @param String[] $names
     * @param Integer[] $heights
     * @return String[]
     */
    function sortPeople($names, $heights) {

    }
}

```

Dart Solution:

```

class Solution {
    List<String> sortPeople(List<String> names, List<int> heights) {
        }

    }
}

```

Scala Solution:

```
object Solution {  
    def sortPeople(names: Array[String], heights: Array[Int]): Array[String] = {  
        // Implementation  
    }  
}
```

Elixir Solution:

```
defmodule Solution do  
  @spec sort_people(names :: [String.t], heights :: [integer]) :: [String.t]  
  def sort_people(names, heights) do  
  
  end  
end
```

Erlang Solution:

```
-spec sort_people(Names :: [unicode:unicode_binary()], Heights ::  
[integer()]) -> [unicode:unicode_binary()].  
sort_people(Names, Heights) ->  
.
```

Racket Solution:

```
(define/contract (sort-people names heights)  
  (-> (listof string?) (listof exact-integer?) (listof string?))  
)
```