

Problem 3169: Count Days Without Meetings

Problem Information

Difficulty: Medium

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

You are given a positive integer

days

representing the total number of days an employee is available for work (starting from day 1).

You are also given a 2D array

meetings

of size

n

where,

$\text{meetings}[i] = [\text{start_i}, \text{end_i}]$

represents the starting and ending days of meeting

i

(inclusive).

Return the count of days when the employee is available for work but no meetings are scheduled.

Note:

The meetings may overlap.

Example 1:

Input:

days = 10, meetings = [[5,7],[1,3],[9,10]]

Output:

2

Explanation:

There is no meeting scheduled on the 4

th

and 8

th

days.

Example 2:

Input:

days = 5, meetings = [[2,4],[1,3]]

Output:

1

Explanation:

There is no meeting scheduled on the 5

th

day.

Example 3:

Input:

days = 6, meetings = [[1,6]]

Output:

0

Explanation:

Meetings are scheduled for all working days.

Constraints:

$1 \leq \text{days} \leq 10$

9

$1 \leq \text{meetings.length} \leq 10$

5

$\text{meetings}[i].\text{length} == 2$

$1 \leq \text{meetings}[i][0] \leq \text{meetings}[i][1] \leq \text{days}$

Code Snippets

C++:

```
class Solution {  
public:
```

```

int countDays(int days, vector<vector<int>>& meetings) {

}

};

```

Java:

```

class Solution {
public int countDays(int days, int[][] meetings) {

}

}

```

Python3:

```

class Solution:
def countDays(self, days: int, meetings: List[List[int]]) -> int:

```

Python:

```

class Solution(object):
def countDays(self, days, meetings):
"""
:type days: int
:type meetings: List[List[int]]
:rtype: int
"""

```

JavaScript:

```

/**
 * @param {number} days
 * @param {number[][]} meetings
 * @return {number}
 */
var countDays = function(days, meetings) {

};

```

TypeScript:

```
function countDays(days: number, meetings: number[][]): number {  
  
};
```

C#:

```
public class Solution {  
    public int CountDays(int days, int[][] meetings) {  
  
    }  
}
```

C:

```
int countDays(int days, int** meetings, int meetingsSize, int*  
meetingsColSize) {  
  
}
```

Go:

```
func countDays(days int, meetings [][]int) int {  
  
}
```

Kotlin:

```
class Solution {  
    fun countDays(days: Int, meetings: Array<IntArray>): Int {  
  
    }  
}
```

Swift:

```
class Solution {  
    func countDays(_ days: Int, _ meetings: [[Int]]) -> Int {  
  
    }  
}
```

Rust:

```

impl Solution {
  pub fn count_days(days: i32, meetings: Vec<Vec<i32>>) -> i32 {

  }
}

```

Ruby:

```

# @param {Integer} days
# @param {Integer[][]} meetings
# @return {Integer}
def count_days(days, meetings)

end

```

PHP:

```

class Solution {

  /**
   * @param Integer $days
   * @param Integer[][] $meetings
   * @return Integer
   */
  function countDays($days, $meetings) {

  }
}

```

Dart:

```

class Solution {
  int countDays(int days, List<List<int>> meetings) {

  }
}

```

Scala:

```

object Solution {
  def countDays(days: Int, meetings: Array[Array[Int]]): Int = {

  }
}

```

```
}
```

Elixir:

```
defmodule Solution do
  @spec count_days(days :: integer, meetings :: [[integer]]) :: integer
  def count_days(days, meetings) do

  end
end
```

Erlang:

```
-spec count_days(Days :: integer(), Meetings :: [[integer()]]) -> integer().
count_days(Days, Meetings) ->
.
```

Racket:

```
(define/contract (count-days days meetings)
  (-> exact-integer? (listof (listof exact-integer?)) exact-integer?)
)
```

Solutions

C++ Solution:

```
/*
 * Problem: Count Days Without Meetings
 * Difficulty: Medium
 * Tags: array, sort
 *
 * Approach: Use two pointers or sliding window technique
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(1) to O(n) depending on approach
 */

class Solution {
public:
  int countDays(int days, vector<vector<int>>& meetings) {
```

```
}  
};
```

Java Solution:

```
/**  
 * Problem: Count Days Without Meetings  
 * Difficulty: Medium  
 * Tags: array, sort  
 *  
 * Approach: Use two pointers or sliding window technique  
 * Time Complexity: O(n) or O(n log n)  
 * Space Complexity: O(1) to O(n) depending on approach  
 */  
  
class Solution {  
    public int countDays(int days, int[][] meetings) {  
  
    }  
}
```

Python3 Solution:

```
"""  
Problem: Count Days Without Meetings  
Difficulty: Medium  
Tags: array, sort  
  
Approach: Use two pointers or sliding window technique  
Time Complexity: O(n) or O(n log n)  
Space Complexity: O(1) to O(n) depending on approach  
"""  
  
class Solution:  
    def countDays(self, days: int, meetings: List[List[int]]) -> int:  
        # TODO: Implement optimized solution  
        pass
```

Python Solution:


```

class Solution(object):
def countDays(self, days, meetings):
    """
    :type days: int
    :type meetings: List[List[int]]
    :rtype: int
    """

```

JavaScript Solution:

```

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 * Tags: array, sort
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/**
 * @param {number} days
 * @param {number[][]} meetings
 * @return {number}
 */
var countDays = function(days, meetings) {

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```

TypeScript Solution:

```

/**
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function countDays(days: number, meetings: number[][]): number {

```

```
};
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C# Solution:

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 */

public class Solution {
    public int CountDays(int days, int[][] meetings) {

    }
}
```

C Solution:

```
/*
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int countDays(int days, int** meetings, int meetingsSize, int*
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Go Solution:

```

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// Tags: array, sort
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func countDays(days int, meetings [][]int) int {

}

```

Kotlin Solution:

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class Solution {
    fun countDays(days: Int, meetings: Array<IntArray>): Int {

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class Solution {
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# @param {Integer} days
# @param {Integer[][]} meetings
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PHP Solution:

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class Solution {

    /**
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Dart Solution:

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