

# 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

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

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

## 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) {  
        // Implementation  
    }  
}
```

### 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:

```

/**
 * 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
 */

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

### TypeScript 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
 */

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

```
};
```

### 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
 */

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

    }
}
```

### 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
 */

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

}
```

### Go 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

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

}

```

### Kotlin Solution:

```

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

```

### Swift Solution:

```

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

```

### Rust 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

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

```

```
}
```

### Ruby Solution:

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

end
```

### PHP Solution:

```
class Solution {

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

    }
}
```

### Dart Solution:

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

### Scala Solution:

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

### Elixir Solution:

```
defmodule Solution do
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end
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### Erlang Solution:

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### Racket Solution:

```
(define/contract (count-days days meetings)
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