

# Problem 3238: Find the Number of Winning Players

## Problem Information

Difficulty: [Easy](#)

Acceptance Rate: 0.00%

Paid Only: No

## Problem Description

You are given an integer

$n$

representing the number of players in a game and a 2D array

$pick$

where

$pick[i] = [x$

$i$

,  $y$

$i$

$]$

represents that the player

$x$

$i$

picked a ball of color

y

i

.

Player

i

wins

the game if they pick

strictly more

than

i

balls of the

same

color. In other words,

Player 0 wins if they pick any ball.

Player 1 wins if they pick at least two balls of the

same

color.

...

Player

$i$

wins if they pick at least

$i + 1$

balls of the

same

color.

Return the number of players who

win

the game.

Note

that

multiple

players can win the game.

Example 1:

Input:

$n = 4$ ,  $\text{pick} = [[0,0],[1,0],[1,0],[2,1],[2,1],[2,0]]$

Output:

2

Explanation:

Player 0 and player 1 win the game, while players 2 and 3 do not win.

Example 2:

Input:

$n = 5$ ,  $\text{pick} = [[1,1],[1,2],[1,3],[1,4]]$

Output:

0

Explanation:

No player wins the game.

Example 3:

Input:

$n = 5$ ,  $\text{pick} = [[1,1],[2,4],[2,4],[2,4]]$

Output:

1

Explanation:

Player 2 wins the game by picking 3 balls with color 4.

Constraints:

$2 \leq n \leq 10$

$1 \leq \text{pick.length} \leq 100$

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

0 <= x

i

<= n - 1

0 <= y

i

<= 10

## Code Snippets

### C++:

```
class Solution {
public:
    int winningPlayerCount(int n, vector<vector<int>>>& pick) {

    }
};
```

### Java:

```
class Solution {
    public int winningPlayerCount(int n, int[][] pick) {

    }
}
```

### Python3:

```
class Solution:
    def winningPlayerCount(self, n: int, pick: List[List[int]]) -> int:
```

### Python:

```
class Solution(object):
    def winningPlayerCount(self, n, pick):
```

```

"""
:type n: int
:type pick: List[List[int]]
:rtype: int
"""

```

### JavaScript:

```

/**
 * @param {number} n
 * @param {number[][]} pick
 * @return {number}
 */
var winningPlayerCount = function(n, pick) {

};

```

### TypeScript:

```

function winningPlayerCount(n: number, pick: number[][]): number {

};

```

### C#:

```

public class Solution {
    public int WinningPlayerCount(int n, int[][] pick) {

    }
}

```

### C:

```

int winningPlayerCount(int n, int** pick, int pickSize, int* pickColSize) {

}

```

### Go:

```

func winningPlayerCount(n int, pick [][]int) int {

}

```

### Kotlin:

```
class Solution {  
    fun winningPlayerCount(n: Int, pick: Array<IntArray>): Int {  
  
    }  
}
```

### Swift:

```
class Solution {  
    func winningPlayerCount(_ n: Int, _ pick: [[Int]]) -> Int {  
  
    }  
}
```

### Rust:

```
impl Solution {  
    pub fn winning_player_count(n: i32, pick: Vec<Vec<i32>>) -> i32 {  
  
    }  
}
```

### Ruby:

```
# @param {Integer} n  
# @param {Integer[][]} pick  
# @return {Integer}  
def winning_player_count(n, pick)  
  
end
```

### PHP:

```
class Solution {  
  
    /**  
     * @param Integer $n  
     * @param Integer[][] $pick  
     * @return Integer  
     */  
    function winningPlayerCount($n, $pick) {  
  
    }  
}
```

```
}  
}
```

### Dart:

```
class Solution {  
  int winningPlayerCount(int n, List<List<int>> pick) {  
  
  }  
}
```

### Scala:

```
object Solution {  
  def winningPlayerCount(n: Int, pick: Array[Array[Int]]): Int = {  
  
  }  
}
```

### Elixir:

```
defmodule Solution do  
  @spec winning_player_count(n :: integer, pick :: [[integer]]) :: integer  
  def winning_player_count(n, pick) do  
  
  end  
end
```

### Erlang:

```
-spec winning_player_count(N :: integer(), Pick :: [[integer()]]) ->  
integer().  
winning_player_count(N, Pick) ->  
.
```

### Racket:

```
(define/contract (winning-player-count n pick)  
  (-> exact-integer? (listof (listof exact-integer?)) exact-integer?)  
)
```



## Solutions

### C++ Solution:

```
/*
 * Problem: Find the Number of Winning Players
 * Difficulty: Easy
 * Tags: array, hash
 *
 * 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:
    int winningPlayerCount(int n, vector<vector<int>>& pick) {

    }
};
```

### Java Solution:

```
/**
 * Problem: Find the Number of Winning Players
 * Difficulty: Easy
 * Tags: array, hash
 *
 * 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 int winningPlayerCount(int n, int[][] pick) {

    }
}
```

### Python3 Solution:

```

"""
Problem: Find the Number of Winning Players
Difficulty: Easy
Tags: array, hash

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 winningPlayerCount(self, n: int, pick: List[List[int]]) -> int:
        # TODO: Implement optimized solution
        pass

```

## Python Solution:

```

class Solution(object):
    def winningPlayerCount(self, n, pick):
        """
        :type n: int
        :type pick: List[List[int]]
        :rtype: int
        """

```

## JavaScript Solution:

```

/**
 * Problem: Find the Number of Winning Players
 * Difficulty: Easy
 * Tags: array, hash
 *
 * 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 {number} n
 * @param {number[][]} pick
 * @return {number}
 */

```

```
var winningPlayerCount = function(n, pick) {  
  
};
```

### TypeScript Solution:

```
/**  
 * Problem: Find the Number of Winning Players  
 * Difficulty: Easy  
 * Tags: array, hash  
 *  
 * 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 winningPlayerCount(n: number, pick: number[][]): number {  
  
};
```

### C# Solution:

```
/*  
 * Problem: Find the Number of Winning Players  
 * Difficulty: Easy  
 * Tags: array, hash  
 *  
 * 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 int WinningPlayerCount(int n, int[][] pick) {  
  
    }  
}
```

### C Solution:

```

/*
 * Problem: Find the Number of Winning Players
 * Difficulty: Easy
 * Tags: array, hash
 *
 * Approach: Use two pointers or sliding window technique
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(n) for hash map
 */

int winningPlayerCount(int n, int** pick, int pickSize, int* pickColSize) {

}

```

### Go Solution:

```

// Problem: Find the Number of Winning Players
// Difficulty: Easy
// Tags: array, hash
//
// 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 winningPlayerCount(n int, pick [][]int) int {

}

```

### Kotlin Solution:

```

class Solution {
    fun winningPlayerCount(n: Int, pick: Array<IntArray>): Int {

    }
}

```

### Swift Solution:

```

class Solution {
    func winningPlayerCount(_ n: Int, _ pick: [[Int]]) -> Int {

    }
}

```

```
}
```

### Rust Solution:

```
// Problem: Find the Number of Winning Players
// Difficulty: Easy
// Tags: array, hash
//
// Approach: Use two pointers or sliding window technique
// Time Complexity: O(n) or O(n log n)
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impl Solution {
    pub fn winning_player_count(n: i32, pick: Vec<Vec<i32>>) -> i32 {

    }
}
```

### Ruby Solution:

```
# @param {Integer} n
# @param {Integer[][]} pick
# @return {Integer}
def winning_player_count(n, pick)

end
```

### PHP Solution:

```
class Solution {

    /**
     * @param Integer $n
     * @param Integer[][] $pick
     * @return Integer
     */
    function winningPlayerCount($n, $pick) {

    }

}
```

### Dart Solution:

```
class Solution {  
  int winningPlayerCount(int n, List<List<int>> pick) {  
  
  }  
}
```

### Scala Solution:

```
object Solution {  
  def winningPlayerCount(n: Int, pick: Array[Array[Int]]): Int = {  
  
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}
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```
defmodule Solution do  
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```
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integer().  
winning_player_count(N, Pick) ->  
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### Racket Solution:

```
(define/contract (winning-player-count n pick)  
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