

Problem 1854: Maximum Population Year

Problem Information

Difficulty: Easy

Acceptance Rate: 63.21%

Paid Only: No

Tags: Array, Counting, Prefix Sum

Problem Description

You are given a 2D integer array `logs` where each `logs[i] = [birthi, deathi]` indicates the birth and death years of the *i*th person.

The **population** of some year `x` is the number of people alive during that year. The *i*th person is counted in year `x`'s population if `x` is in the **inclusive** range `[birthi, deathi - 1]`. Note that the person is **not** counted in the year that they die.

Return **the earliest** year with the **maximum population**.

Example 1:

Input: `logs = [[1993,1999],[2000,2010]]` **Output:** 1993 **Explanation:** The maximum population is 1, and 1993 is the earliest year with this population.

Example 2:

Input: `logs = [[1950,1961],[1960,1971],[1970,1981]]` **Output:** 1960 **Explanation:** The maximum population is 2, and it had happened in years 1960 and 1970. The earlier year between them is 1960.

Constraints:

`1 <= logs.length <= 100` `1950 <= birthi < deathi <= 2050`

Code Snippets

C++:

```
class Solution {  
public:  
    int maximumPopulation(vector<vector<int>>& logs) {  
  
    }  
};
```

Java:

```
class Solution {  
    public int maximumPopulation(int[][] logs) {  
  
    }  
}
```

Python3:

```
class Solution:  
    def maximumPopulation(self, logs: List[List[int]]) -> int:
```