Problem List

Description | Accepted | Editorial | Solutions | Submissions

3450. Maximum Students on a Single Bench

Solved

Premium

Easy | Topics | Hint

You are given a 2D integer array of student data `students`, where `students[i] = [student_id, bench_id]` represents that student `student_id` is sitting on the bench `bench_id`.

Return the **maximum** number of *unique* students sitting on any single bench. If no students are present, return 0.

Note: A student can appear multiple times on the same bench in the input, but they should be counted only once per bench.

Example 1:

> **Input:** `students = [[1,2],[2,2],[3,3],[1,3],[2,3]]`
>
> **Output:** 3
>
> **Explanation:**
>
> - Bench 2 has two unique students: `[1, 2]`.
> - Bench 3 has three unique students: `[1, 2, 3]`.
> - The maximum number of unique students on a single bench is 3.

Example 2:

> **Input:** `students = [[1,1],[2,1],[3,1],[4,2],[5,2]]`
>
> **Output:** 3
>
> **Explanation:**
>
> - Bench 1 has three unique students: `[1, 2, 3]`.
> - Bench 2 has two unique students: `[4, 5]`.
> - The maximum number of unique students on a single bench is 3.

Example 3:

> **Input:** `students = [[1,1],[1,1]]`
>
> **Output:** 1
>
> **Explanation:**
>
> - The maximum number of unique students on a single bench is 1.

Example 4:

> **Input:** `students = []`
>
> **Output:** `0`
>
> **Explanation:**
>
> - Since no students are present, the output is 0.

Constraints:

- `0 <= students.length <= 100`
- `students[i] = [student_id, bench_id]`
- `1 <= student_id <= 100`
- `1 <= bench_id <= 100`

Seen this question in a real interview before? 1/5

Yes | No

Accepted 1,862/2.1K | Acceptance Rate 87.4%

Topics

Hint 1

Discussion (4)

13 | 4 | 0 Online

Submit

Code

Python3 • Auto

```python
class Solution:
    def maxStudentsOnBench(self, students: List[List[int]]) -> int:

        dictx = {}

        for student, bench in students:
            if bench not in dictx:
                dictx[bench] = [student]
            else:
                dictx[bench].append(student)

        max_students = 0

        for value in dictx.values():
            temp = len(set(value))

            if temp > max_students:
                max_students = temp

        return max_students

```

Saved

Ln 13, Col 1

Testcase | Test Result

Accepted Runtime: 0 ms

Case 1 | Case 2 | Case 3 | Case 4

Input

students =

`[[1,1],[1,1]]`

Output

`1`

Expected