



Design- Week2

Week 2

▼ CP Question-

Question- Find the Number of Winning Players

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 player x_i picked a ball of color y_i .

A 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: Multiple players can win the game.

Example 1:

Input: n = 4, 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, pick = [[1, 1], [1, 2], [1, 3], [1, 4]]

Output: 0

Explanation: No player wins the game.

Example 3:

Input: n = 5, pick = [[1, 1], [2, 4], [2, 4], [2, 4]]

Output: 1

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

▼ Coding Challenge-

- Implement a Student class with attributes for name and grades. Provide methods to add grades, calculate the average, and display student information.
- Concatenate two strings.
- Create a program to track monthly expenses and categorize them (e.g., food, transport, entertainment).