Lec-21

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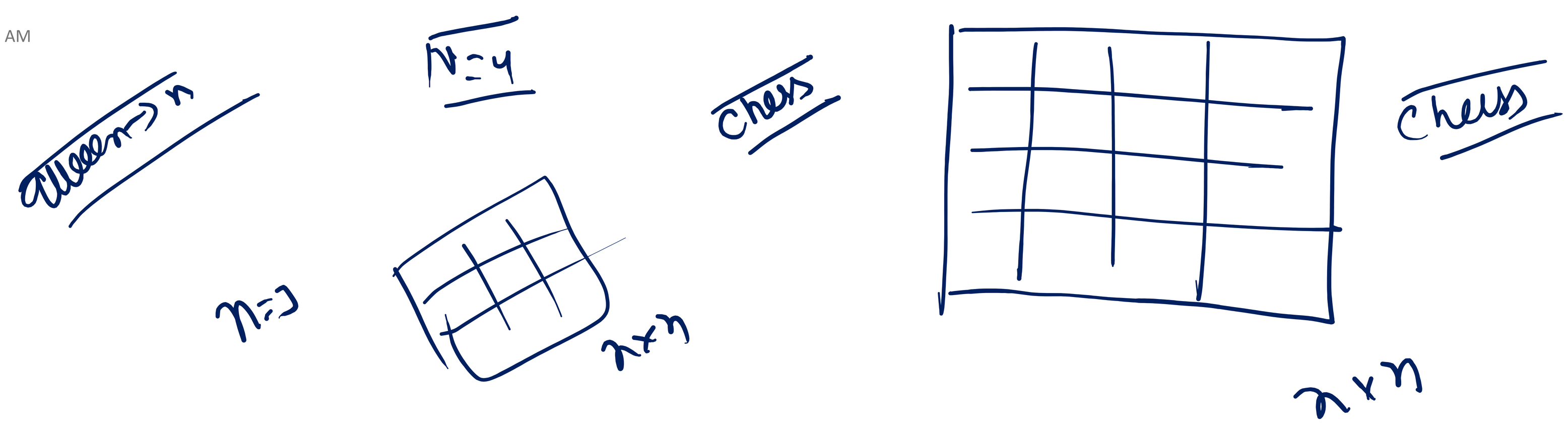
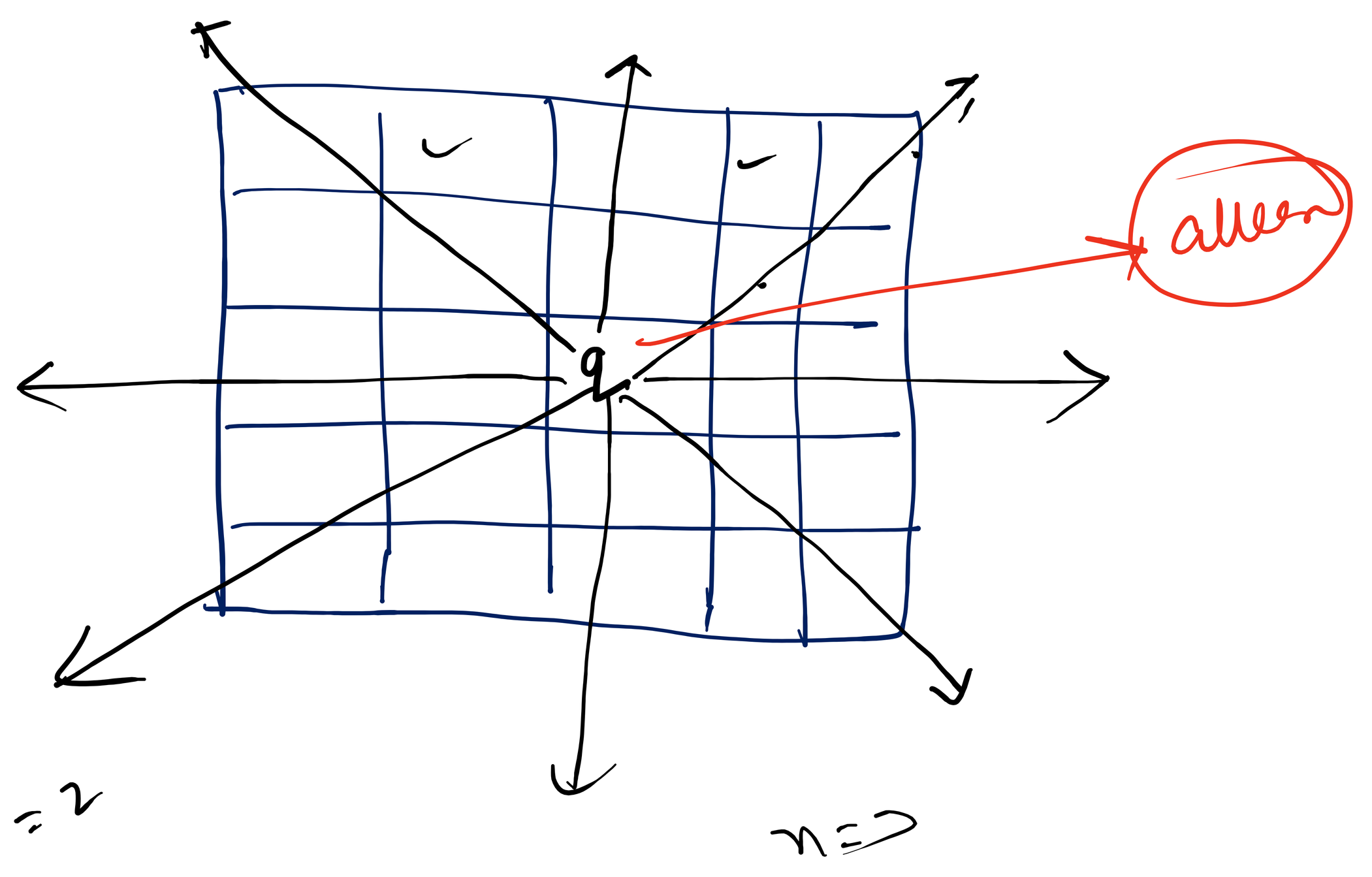
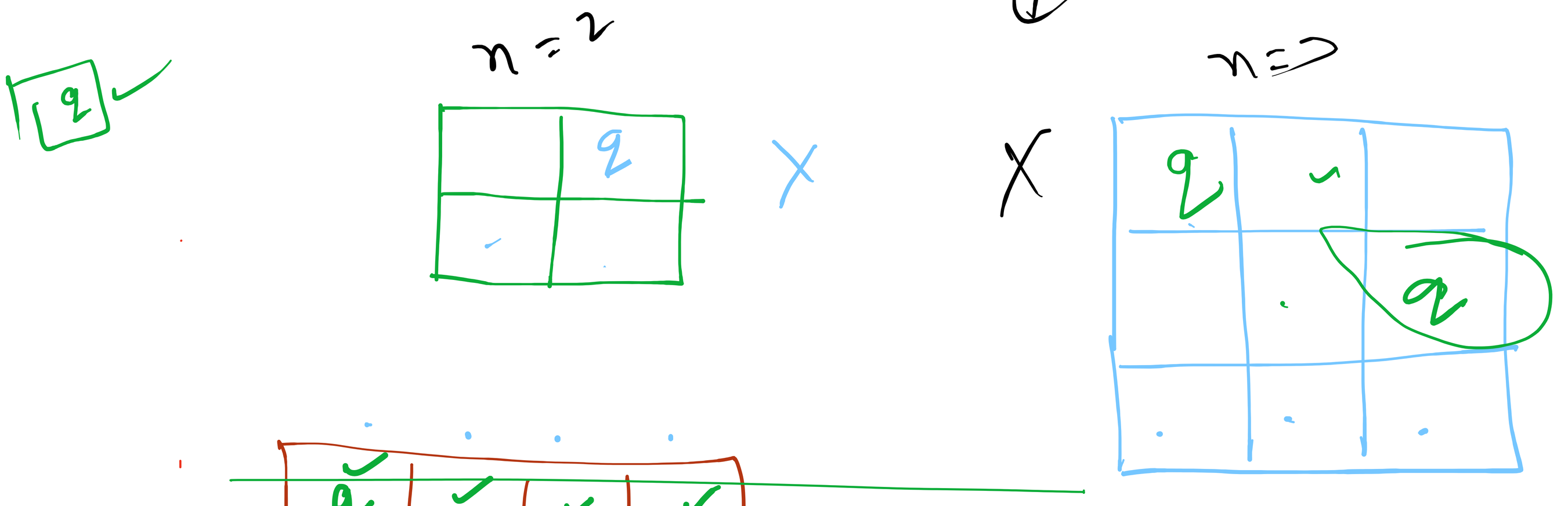
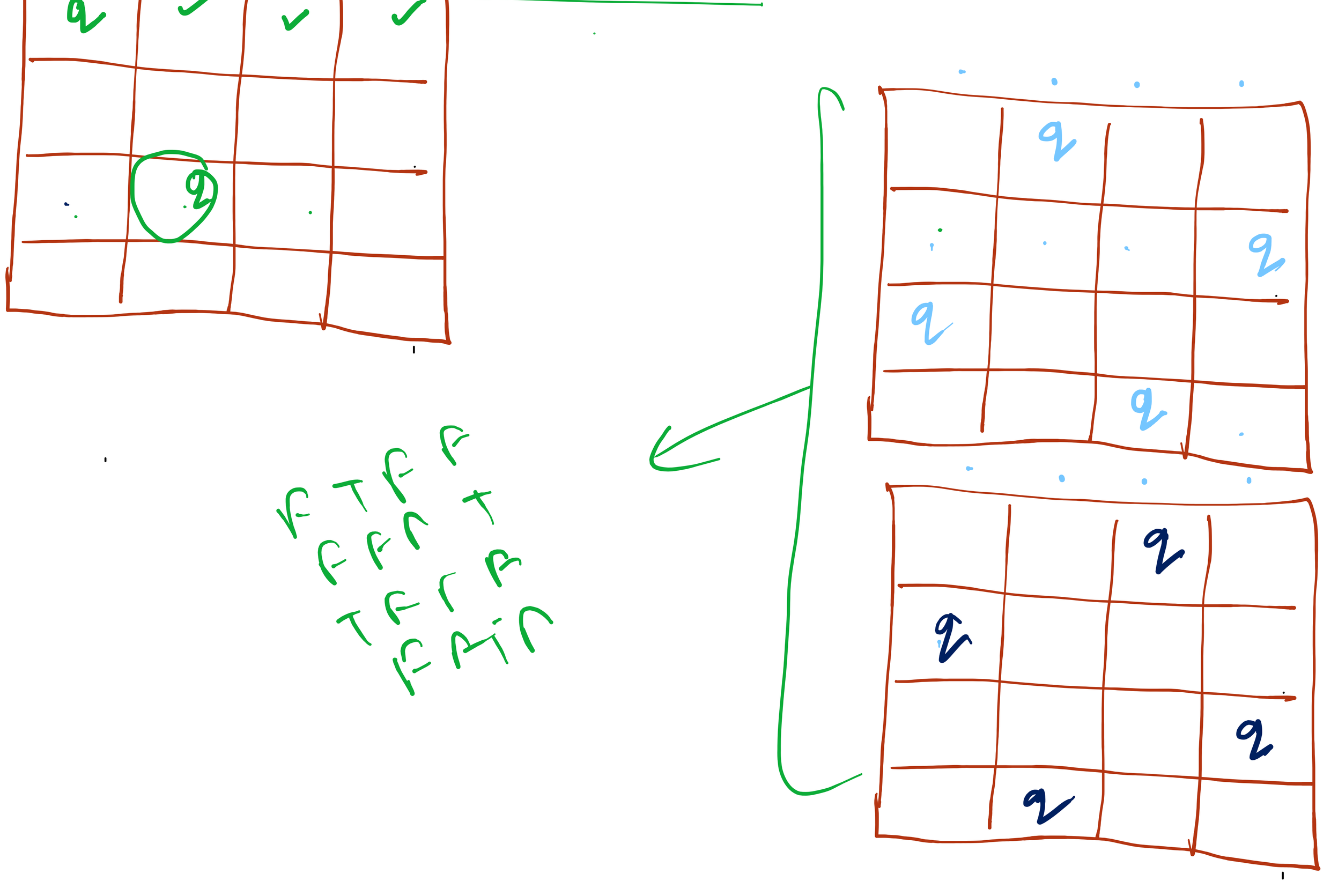


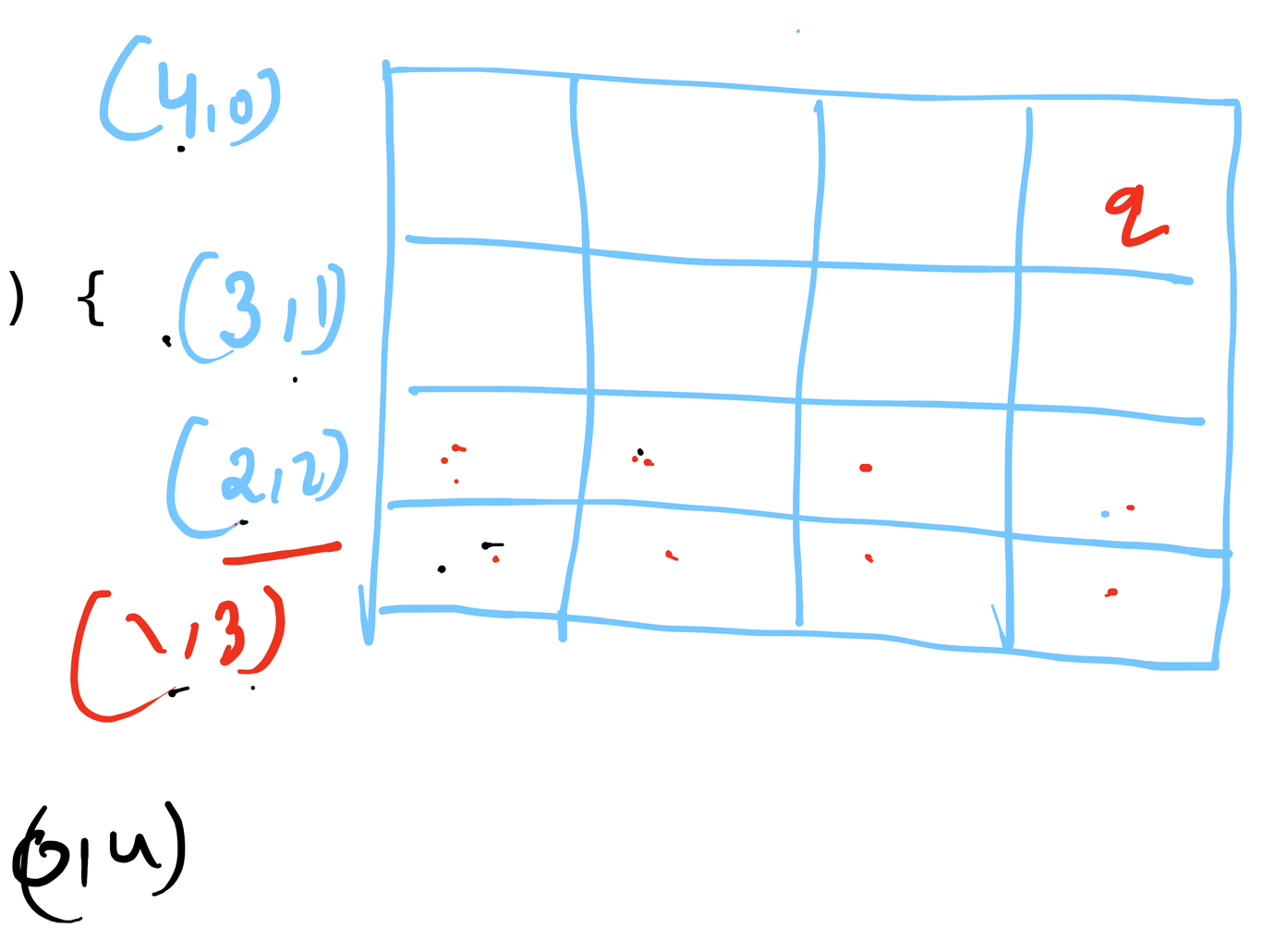


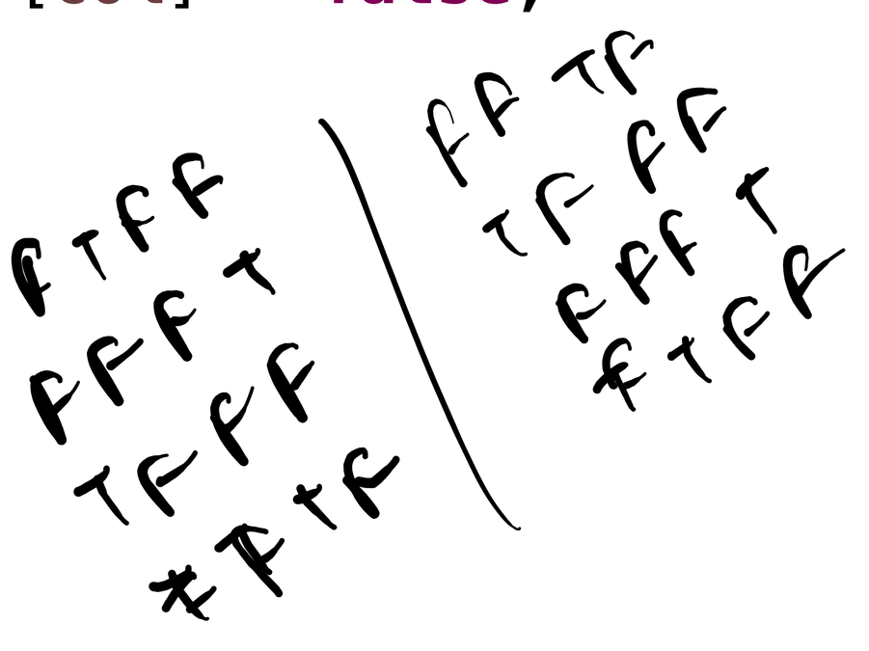


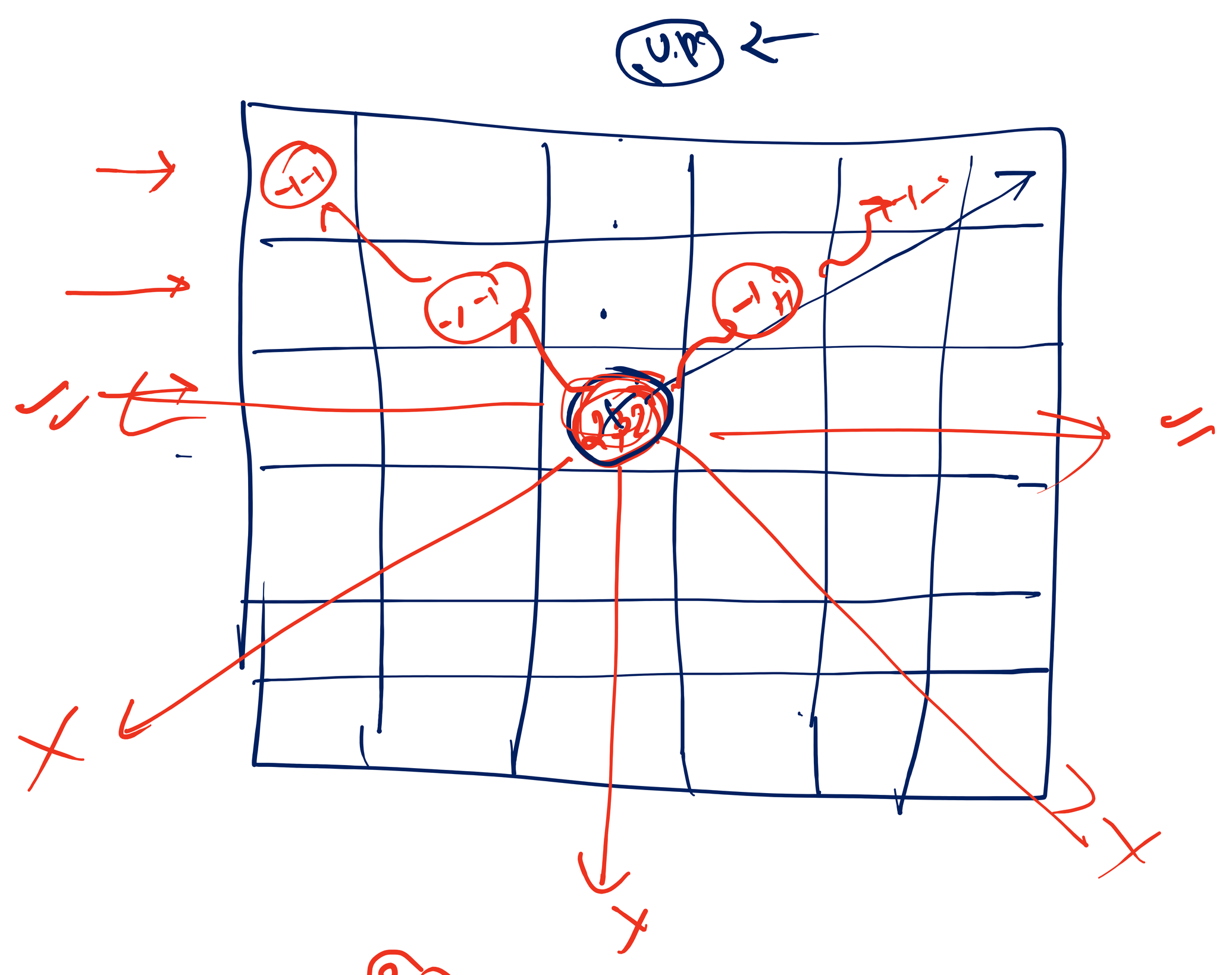


```java
public static void Print(boolean[][] board, int tq, int row) {
    if (tq == 0) {
        display(board);
        return;
    }
    for (int col = 0; col < board[0].length; col++) {
        if (issafe(board, row, col)) {
            board[row][col] = true;
            Print(board, tq - 1, row + 1);
            board[row][col] = false;
        }
    }

}
```

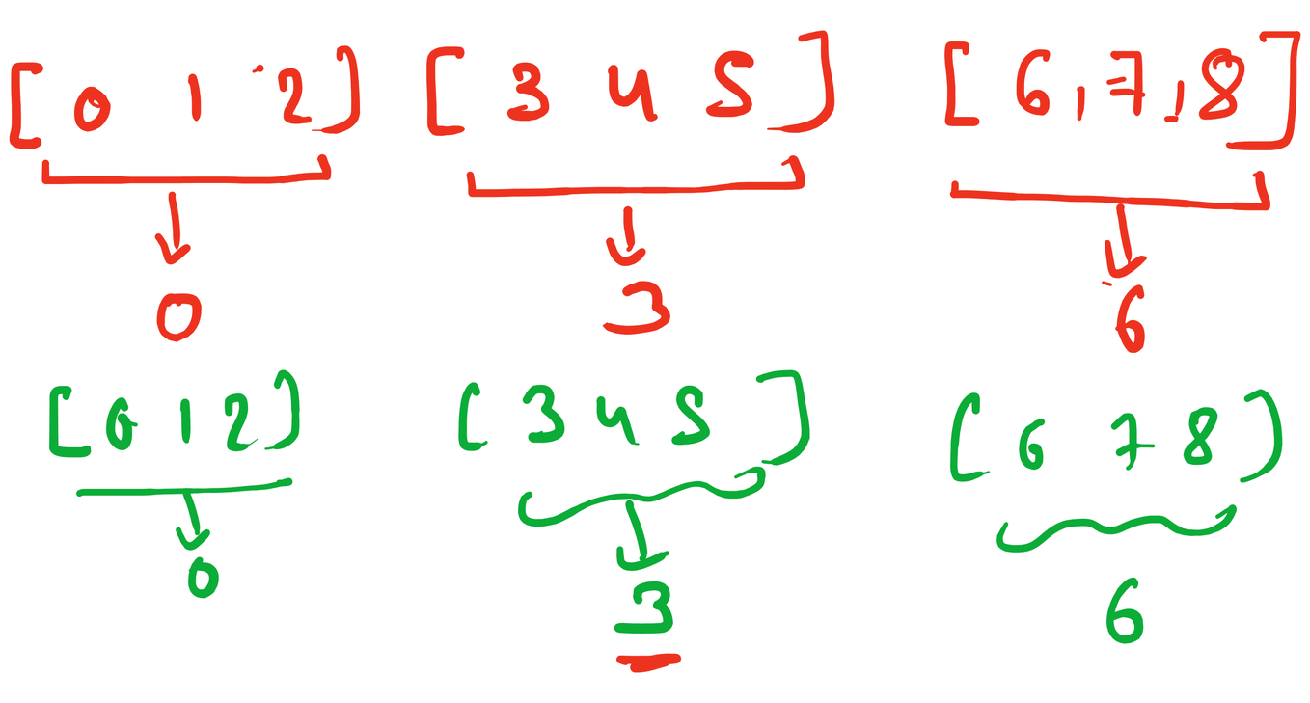




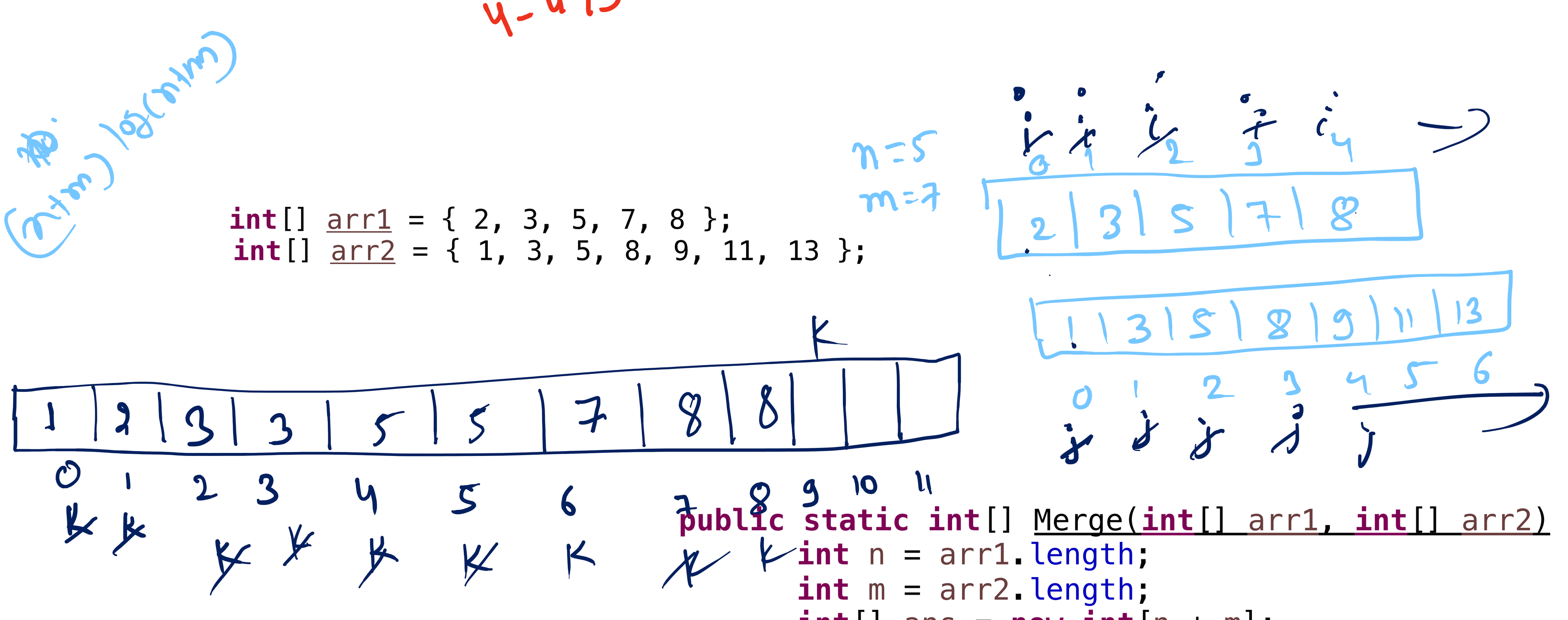


5	3			7				
6			1	9	5			
	9	8					6	
8				6				3
4			8		3			1
7				2				6
	6					2	8	
			4	1	9			5
				8			7	9

```java
public static void Print(int[][] grid, int row, int col) {
    if (grid[row][col] != 0) {
        Print(grid, row, col + 1);
    } else {
        for (int val = 1; val <= 9; val++) {
            if (issafe(grid, row, col, val)) {
                grid[row][col] = val;
                Print(grid, row, col + 1);
                grid[row][col] = 0;
            }
        }
    }
}
```




```java
int[] arr1 = { 2, 3, 5, 7, 8 };
int[] arr2 = { 1, 3, 5, 8, 9, 11, 13 };
```




```java
public static int[] Merge(int[] arr1, int[] arr2) {
    int n = arr1.length;
    int m = arr2.length;
    int[] ans = new int[n + m];
    int i = 0, j = 0, k = 0;
    while (i < n && j < m) {
        if (arr1[i] < arr2[j]) {
            ans[k] = arr1[i];
            i++;
            k++;
        } else {
            ans[k] = arr2[j];
            j++;
            k++;
        }
    }
}
```