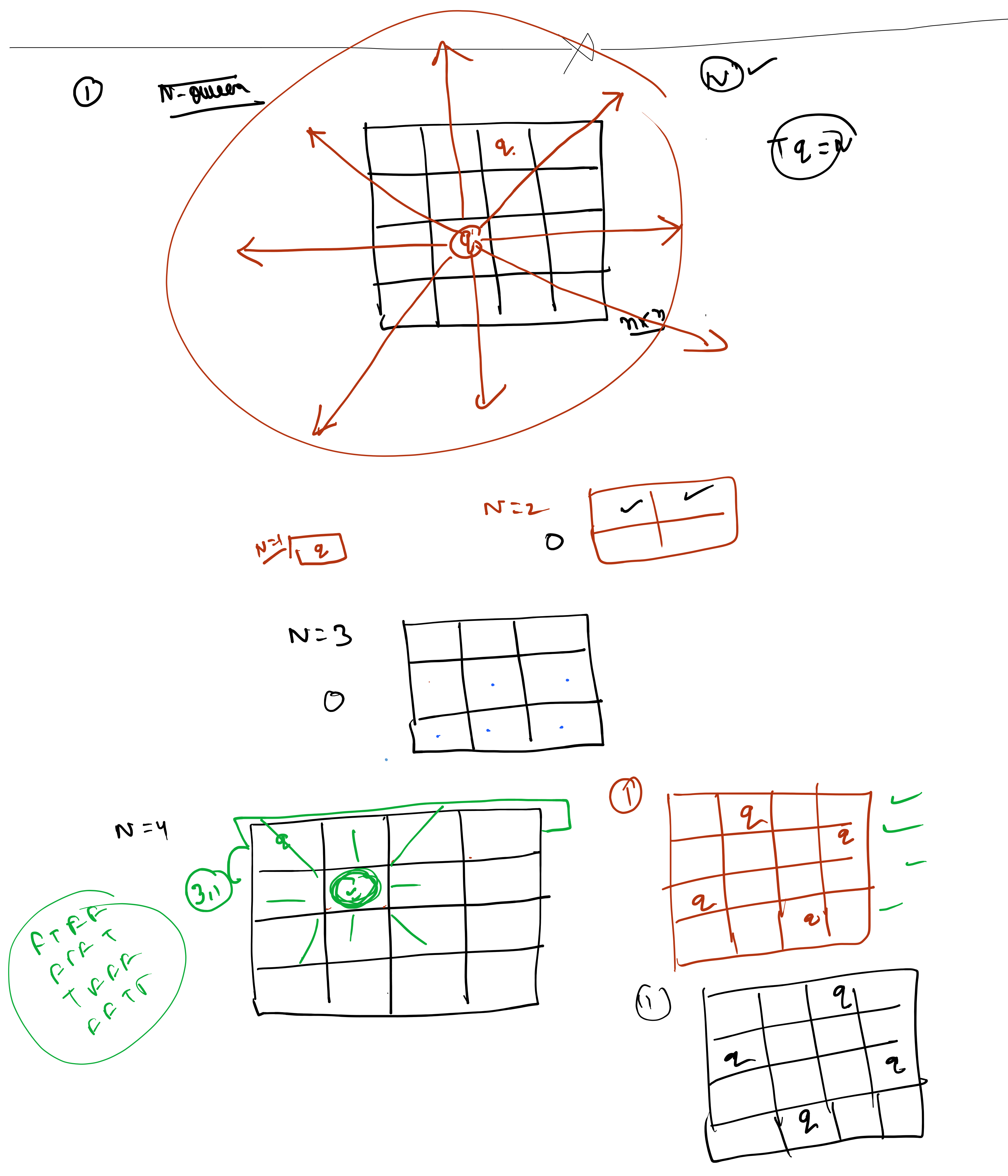
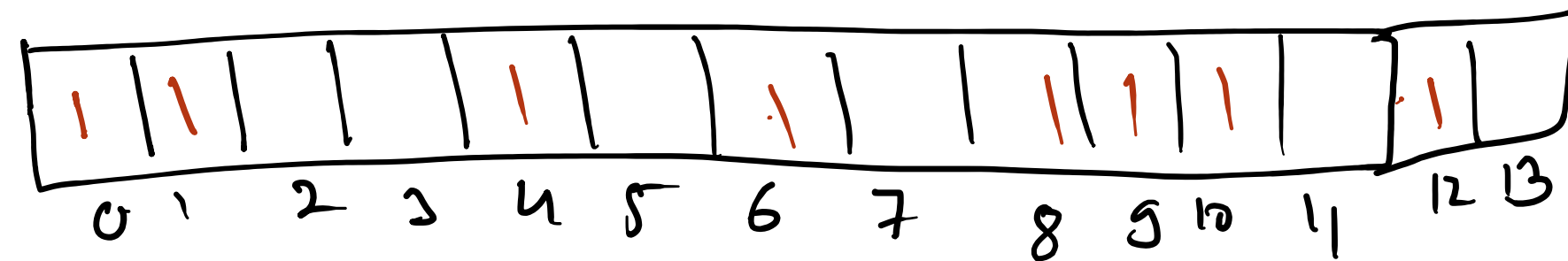
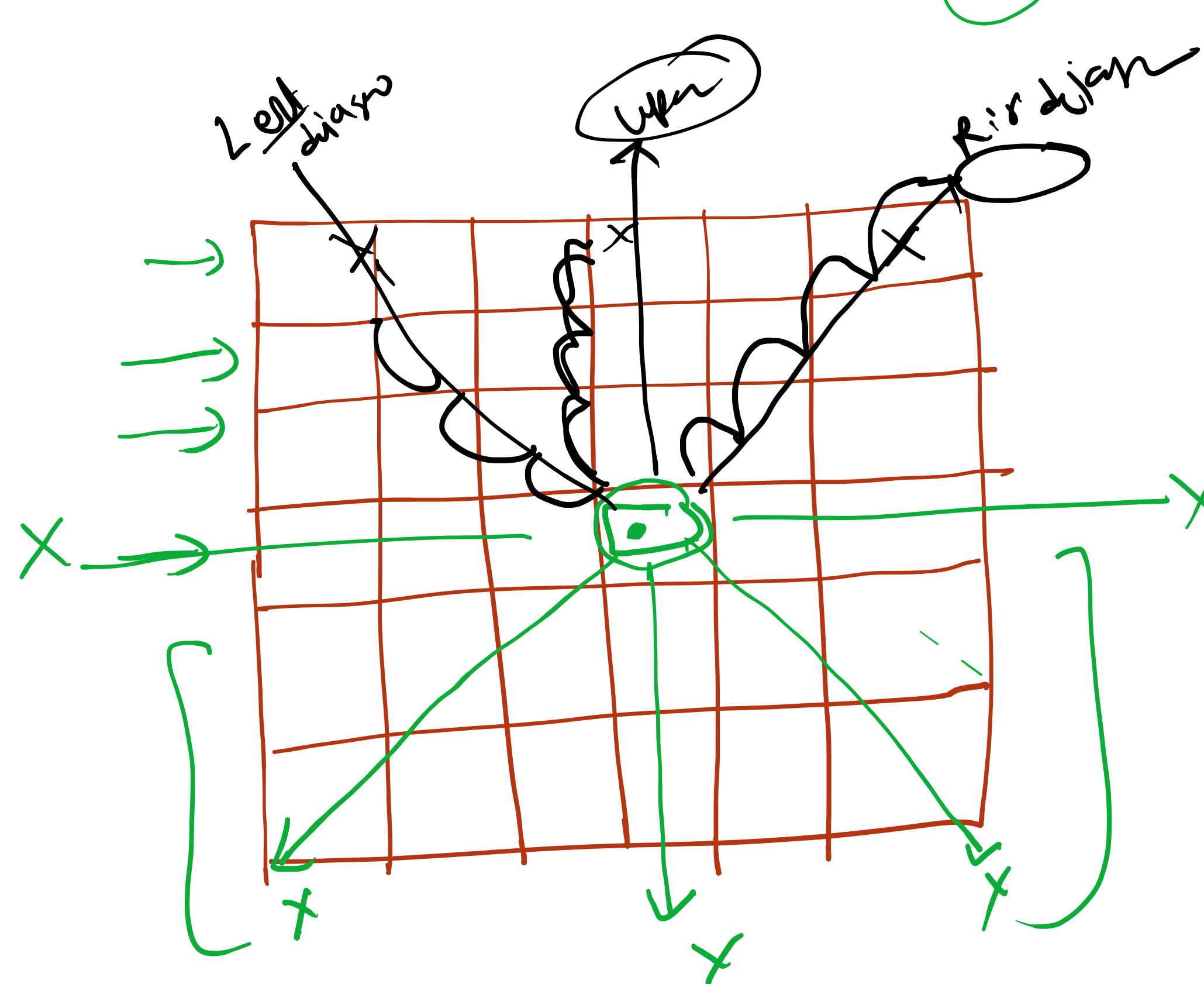
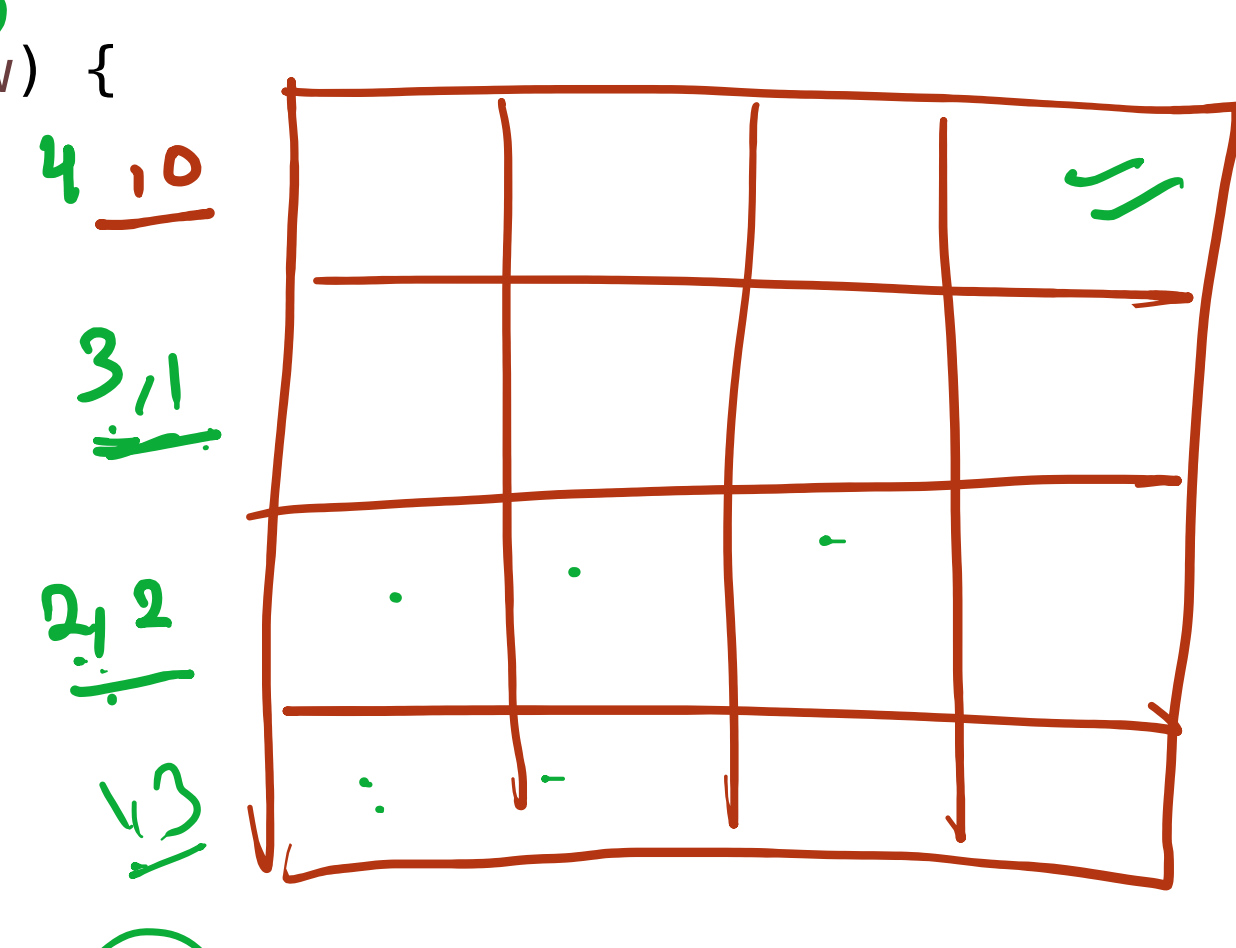


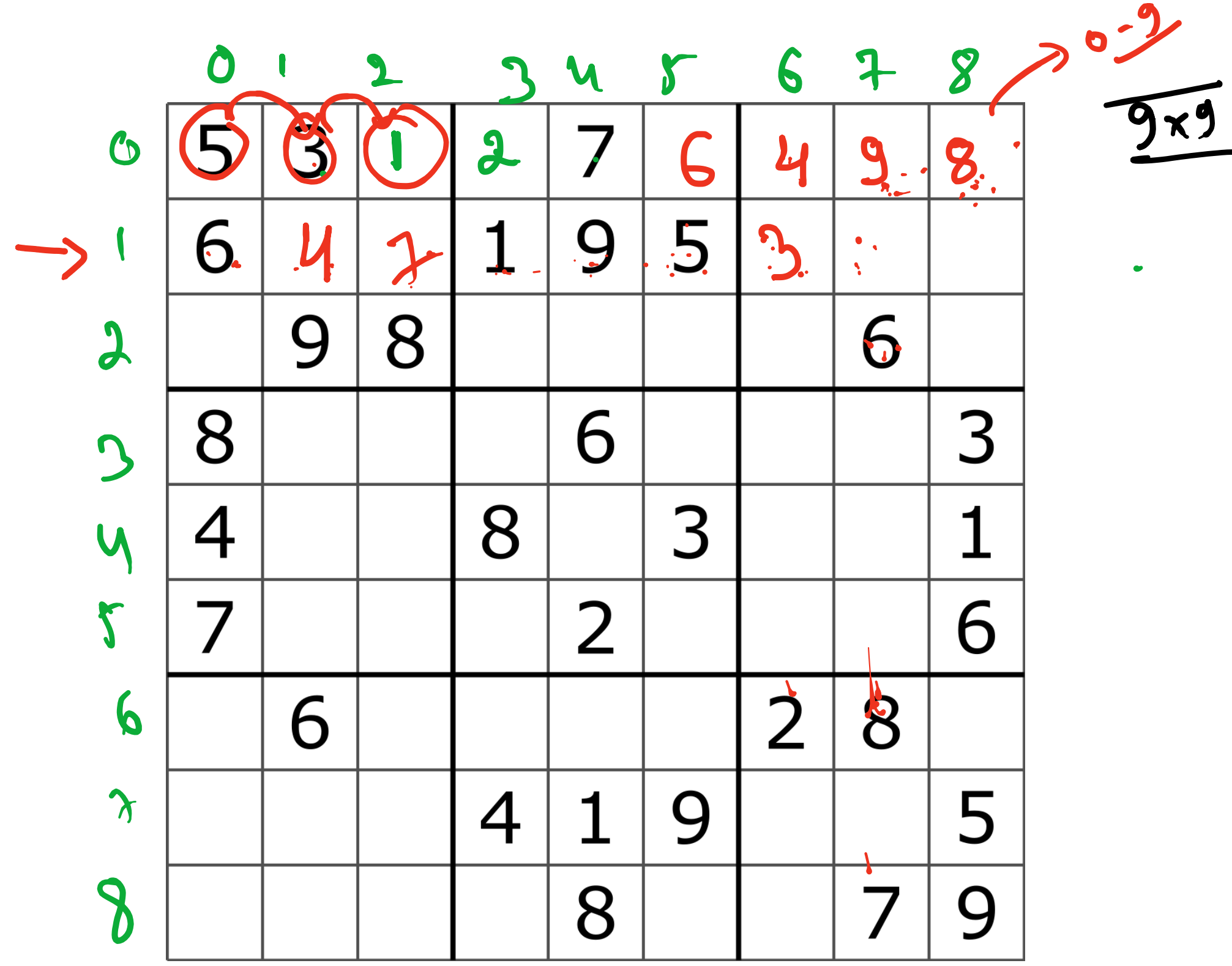
```
public static int Prime.Sieve(int n) {
    int[] prime = new int[n];
    prime[0] = 1; // not prime
    prime[1] = 1; // not prime
    for (int i = 2; i * i < prime.length; i++) {
        if (prime[i] == 0) { // i prime number hai
            for (int j = 2; i * j < prime.length; j++) {
                prime[i*j] = 1; // not prime
            }
        }
    }
}
```



```
public static void print(boolean[][] board, int tq, int row) {
    if(tq==0) {
        Display(board);
        System.out.println();
        return;
    }
    for (int col = 0; col < board[0].length; col++) {
        if(isitsafe(board, row, col)) {
            board[row][col]=true;
            print(board, tq-1, row+1);
            board[row][col]=false;
        }
    }
}
```



A T A F D
 F A F T
 T F F R
 T F T R
 F A T F
 T F F F
 F F F T
 F T F F

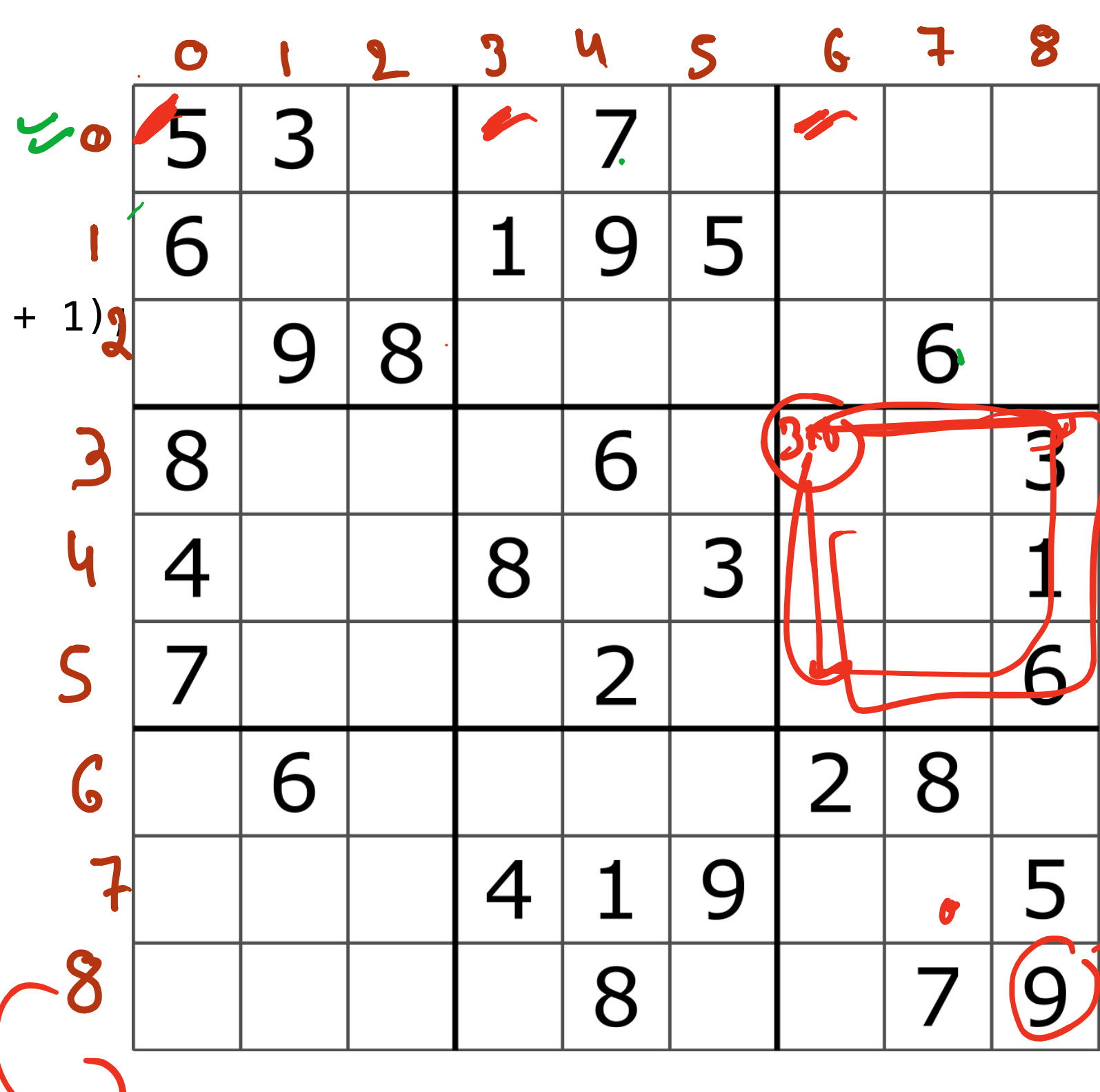


Cal = 89
 $\left[\begin{array}{l} \text{Prost} \\ \text{Cal} = 0 \end{array} \right]$

```

public static boolean Print(int[][] grid, int row, int col) {
    if (grid[row][col] != 0) {
        return Print(grid, row, col + 1);
    } else {
        for (int val = 1; val <= 9; val++) {
            if (isitsafe(grid, row, col, val)) {
                grid[row][col] = val;
                boolean ans = Print(grid, row, col + 1);
                if (ans) {
                    return ans;
                }
                grid[row][col] = 0;
            }
        }
    }
}

```



$R = \begin{bmatrix} [0, 1, 2] \\ [5, 6, 7] \end{bmatrix}$

$\begin{bmatrix} [3, 4, 8] \\ [2, 9] \end{bmatrix}$

$\begin{bmatrix} [6, 7, 8] \\ [5, 6] \end{bmatrix}$

$\begin{bmatrix} [0, 1, 2] \\ [3, 4, 5] \end{bmatrix}$

$\begin{bmatrix} [6, 7, 8] \\ 5 \end{bmatrix}$

Row / Col

(S_i)

$i = Row - Row$

$C = Col - C$

$fnc(i) = i < arr[i]$

$fnc(j) = c < col[j]$

```
i = 0
j = 0
k = 0

while (j < n & i < n) {
    if (arr1[i] < arr2[j])
        ans[k++] = arr1[i]
    else
        ans[k++] = arr2[j]
}
```

$[2, 3, 3, 4, 5, 5, 7, 8, 9]$
0 1 2 3 4 5 6 7 8

