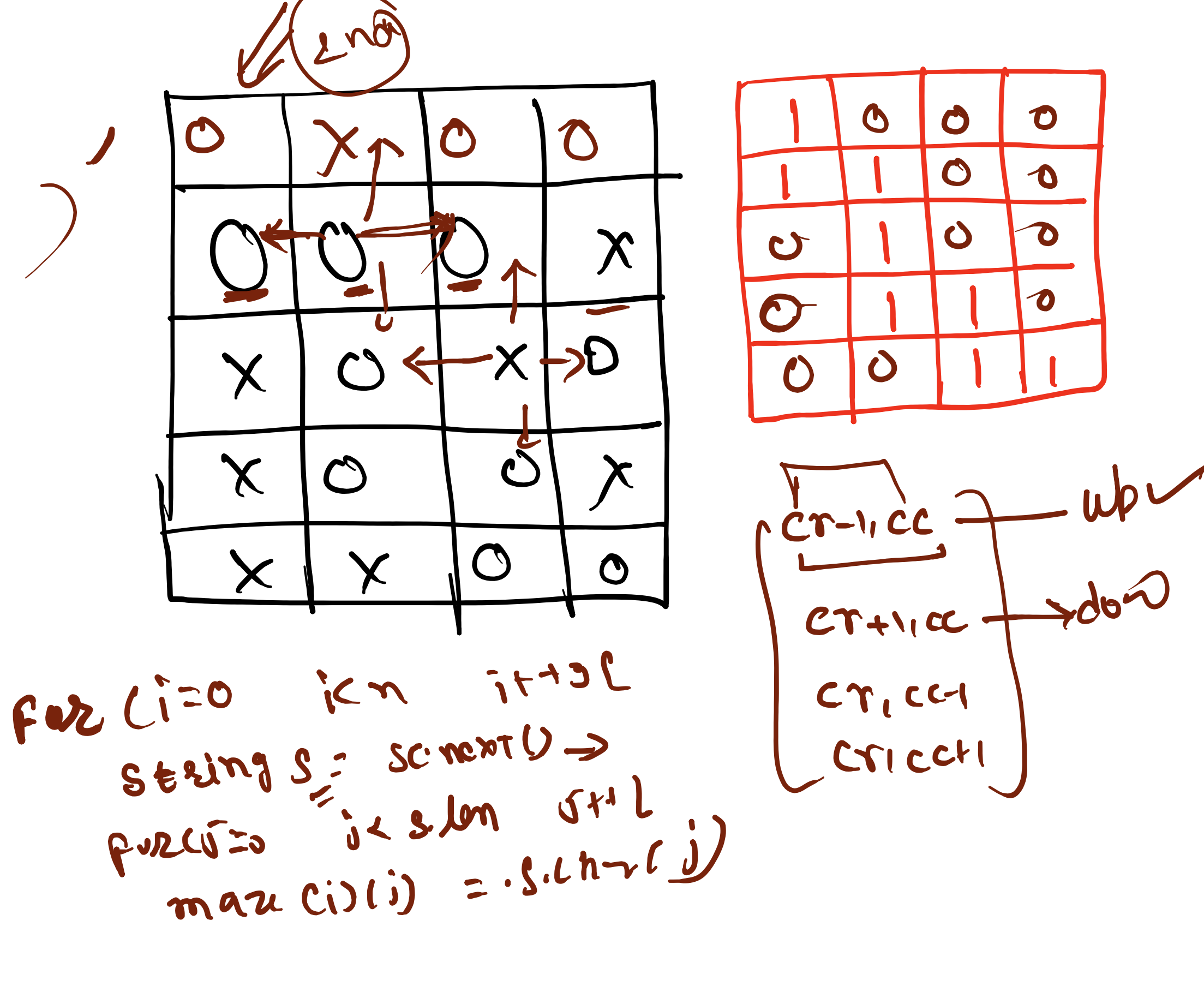


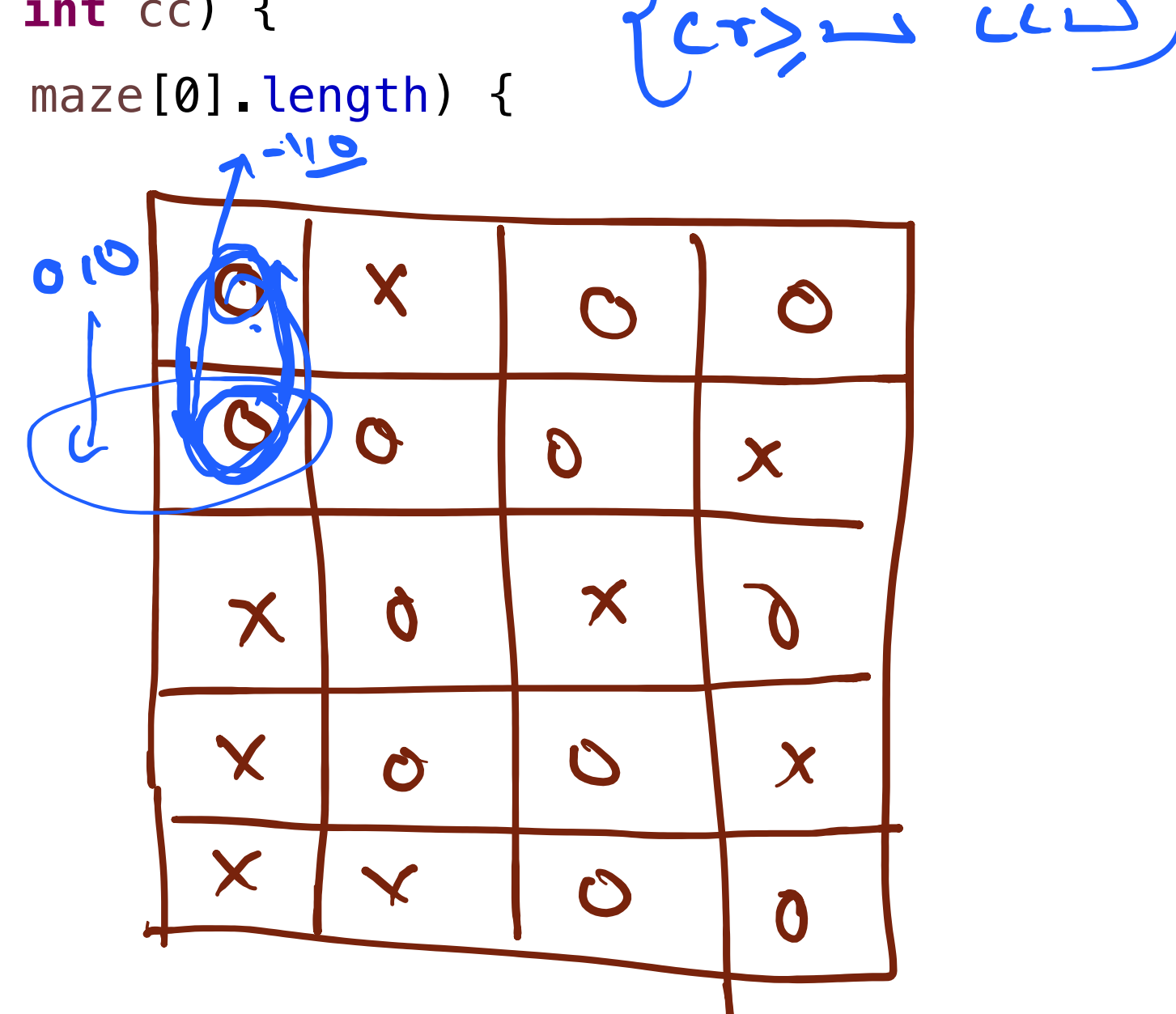
```

Input
5 4
0X00
000X
X0X0
X00X
XX00
    
```



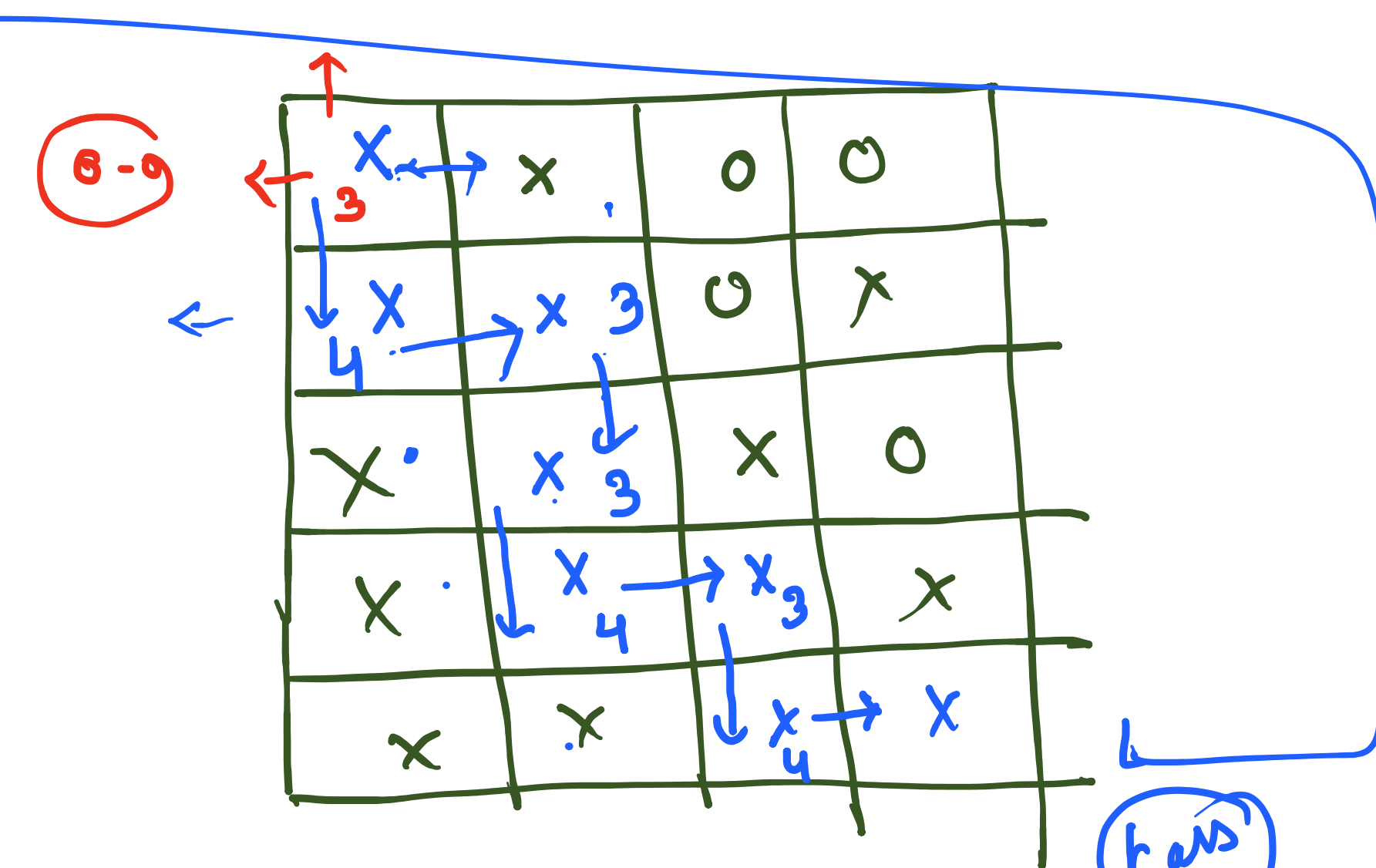
```

public static void Rat_Chases(char[][] maze, int cr, int cc) {
    if (cr < 0 || cc < 0 || cr >= maze.length || cc >= maze[0].length) {
        return;
    }
    Rat_Chases(maze, cr - 1, cc); // up
    Rat_Chases(maze, cr, cc - 1); // left
    Rat_Chases(maze, cr + 1, cc); // down
    Rat_Chases(maze, cr, cc + 1); // right
}
    
```



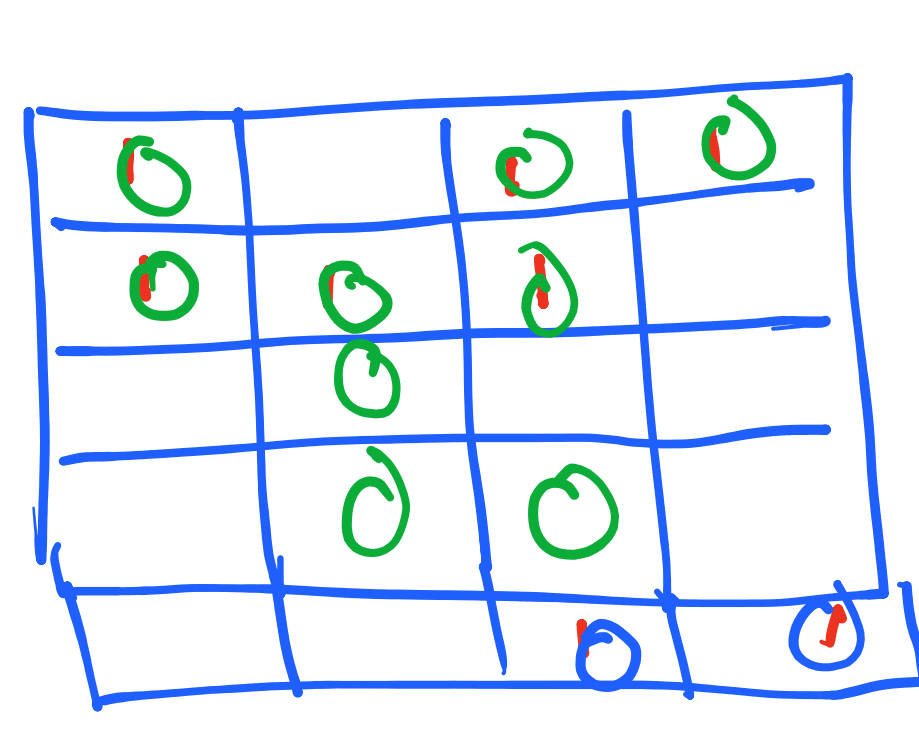
```

public static void Rat_Chases(char[][] maze, int cr, int cc) {
    if (cr < 0 || cc < 0 || cr >= maze.length || cc >= maze[0].length || maze[cr][cc] == 'X') {
        return;
    }
    maze[cr][cc] = 'X';
    Rat_Chases(maze, cr - 1, cc); // up
    Rat_Chases(maze, cr, cc - 1); // left
    Rat_Chases(maze, cr + 1, cc); // down
    Rat_Chases(maze, cr, cc + 1); // right
    maze[cr][cc] = '0';
}
    
```



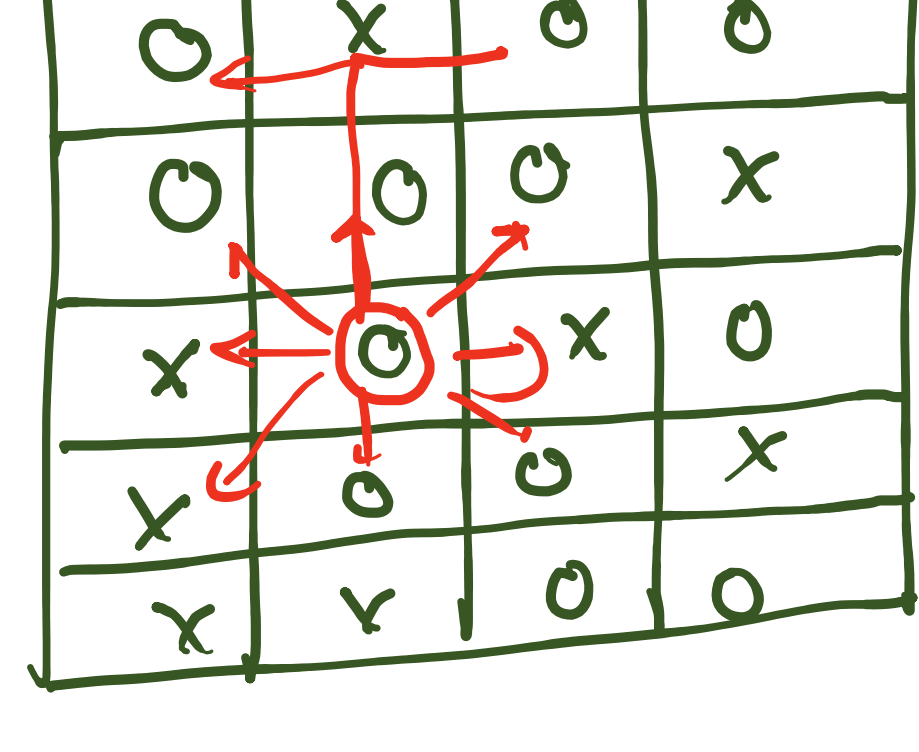
```

public static void Rat_Chases(char[][] maze, int cr, int cc, int[][] ans) {
    if (cr < 0 || cc < 0 || cr >= maze.length || cc >= maze[0].length || maze[cr][cc] == 'X') {
        return;
    }
    ans[cr][cc] = 'X';
    ans[cr][cc] = 1;
    if (cr == maze.length - 1 && cc == maze[0].length - 1) {
        Display(ans);
        return;
    }
    Rat_Chases(maze, cr - 1, cc, ans); // up
    Rat_Chases(maze, cr, cc - 1, ans); // left
    Rat_Chases(maze, cr + 1, cc, ans); // down
    Rat_Chases(maze, cr, cc + 1, ans); // right
    ans[cr][cc] = '0';
    ans[cr][cc] = 0;
}
    
```

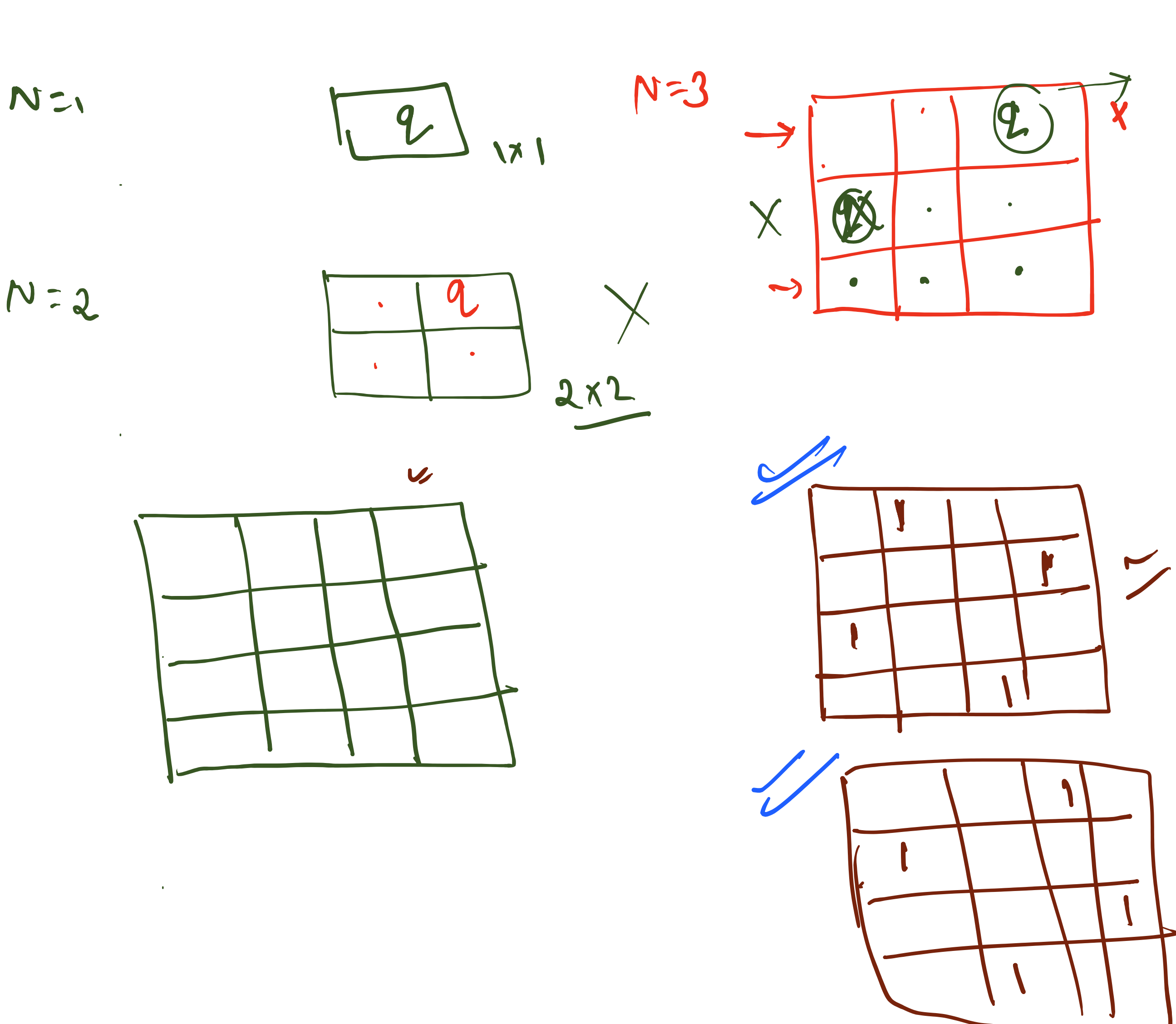
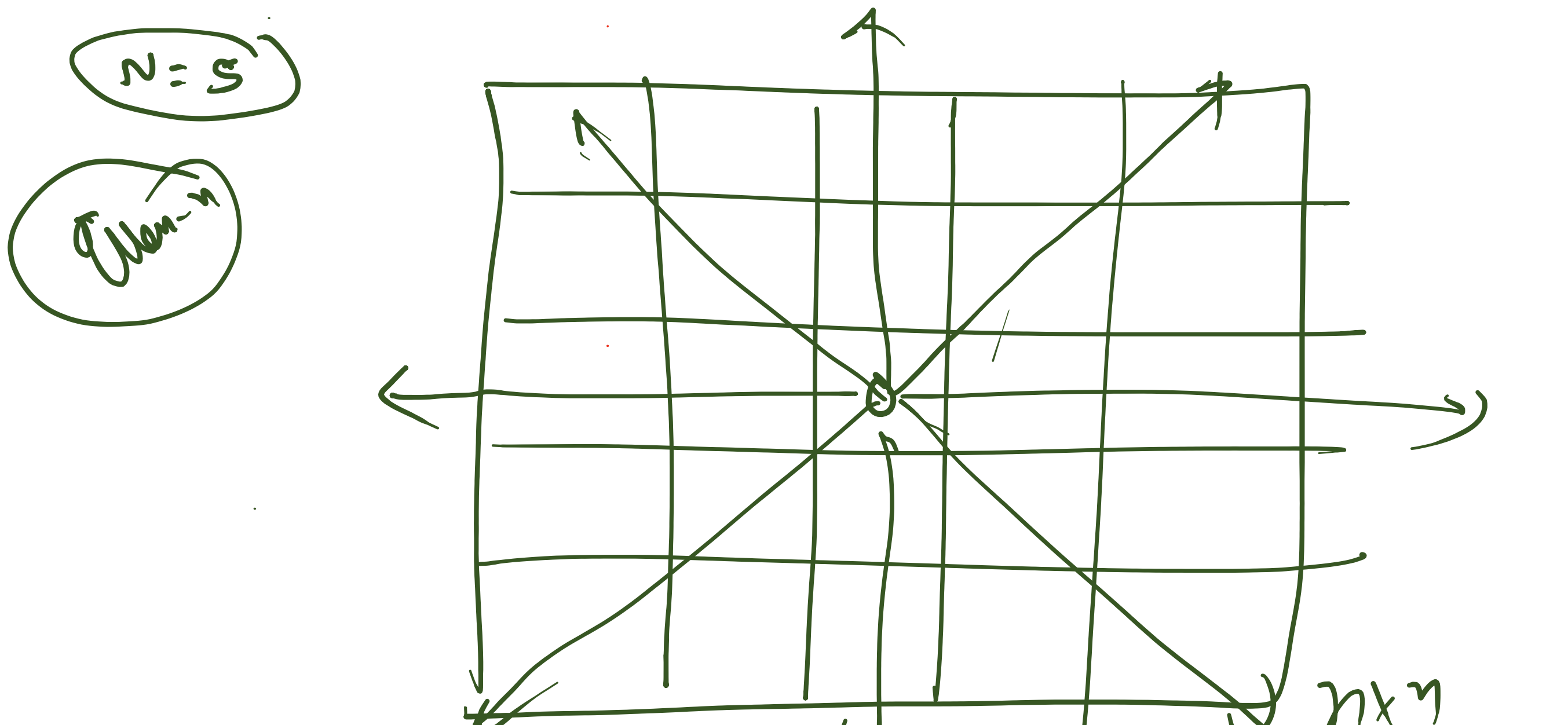


```

public static void Rat_Chases(char[][] maze, int cr, int cc, int[][] ans) {
    if (cr < 0 || cc < 0 || cr >= maze.length || cc >= maze[0].length || maze[cr][cc] == 'X') {
        return;
    }
    maze[cr][cc] = 'X';
    ans[cr][cc] = 1;
    if (cr == maze.length - 1 && cc == maze[0].length - 1) {
        v = true;
        Display(ans);
        maze[cr][cc] = '0';
        ans[cr][cc] = 0;
        return;
    }
    Rat_Chases(maze, cr - 1, cc, ans); // up
    Rat_Chases(maze, cr, cc - 1, ans); // left
    Rat_Chases(maze, cr + 1, cc, ans); // down
    Rat_Chases(maze, cr, cc + 1, ans); // right
    maze[cr][cc] = '0';
    ans[cr][cc] = 0;
}
    
```

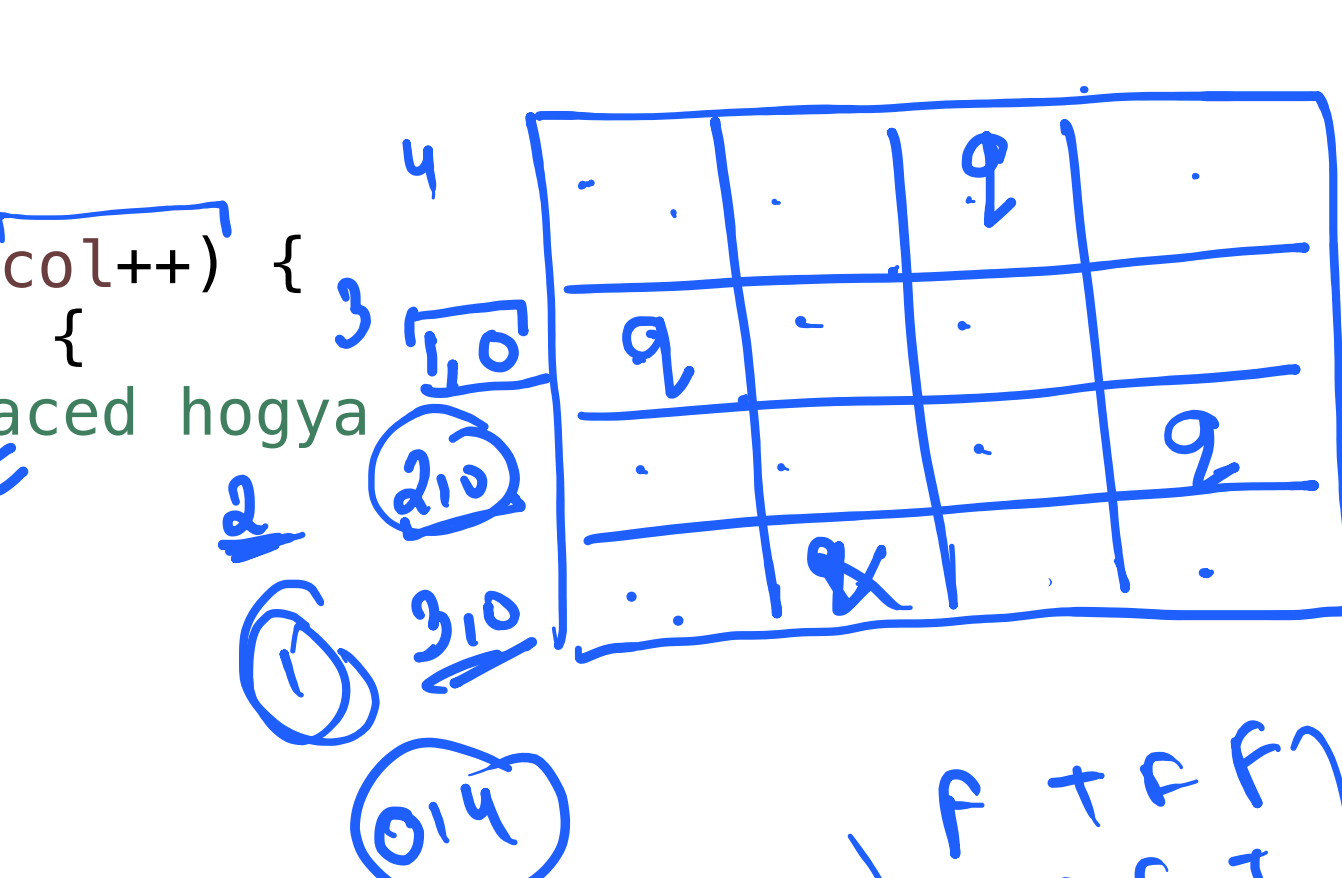


R = 2, 1, 0, 0, 3  
C = 2, 0, 0, 1, 1, 3

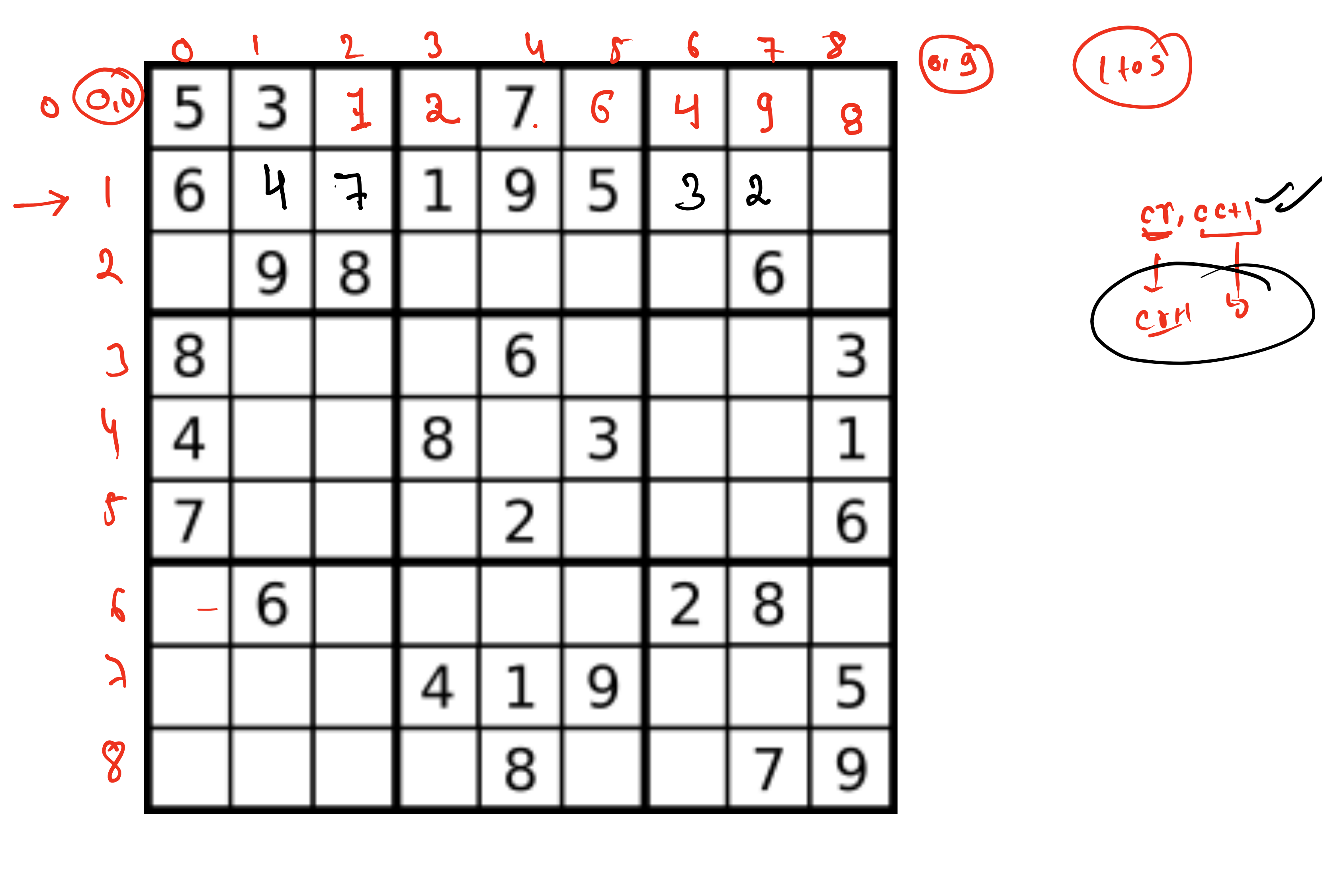
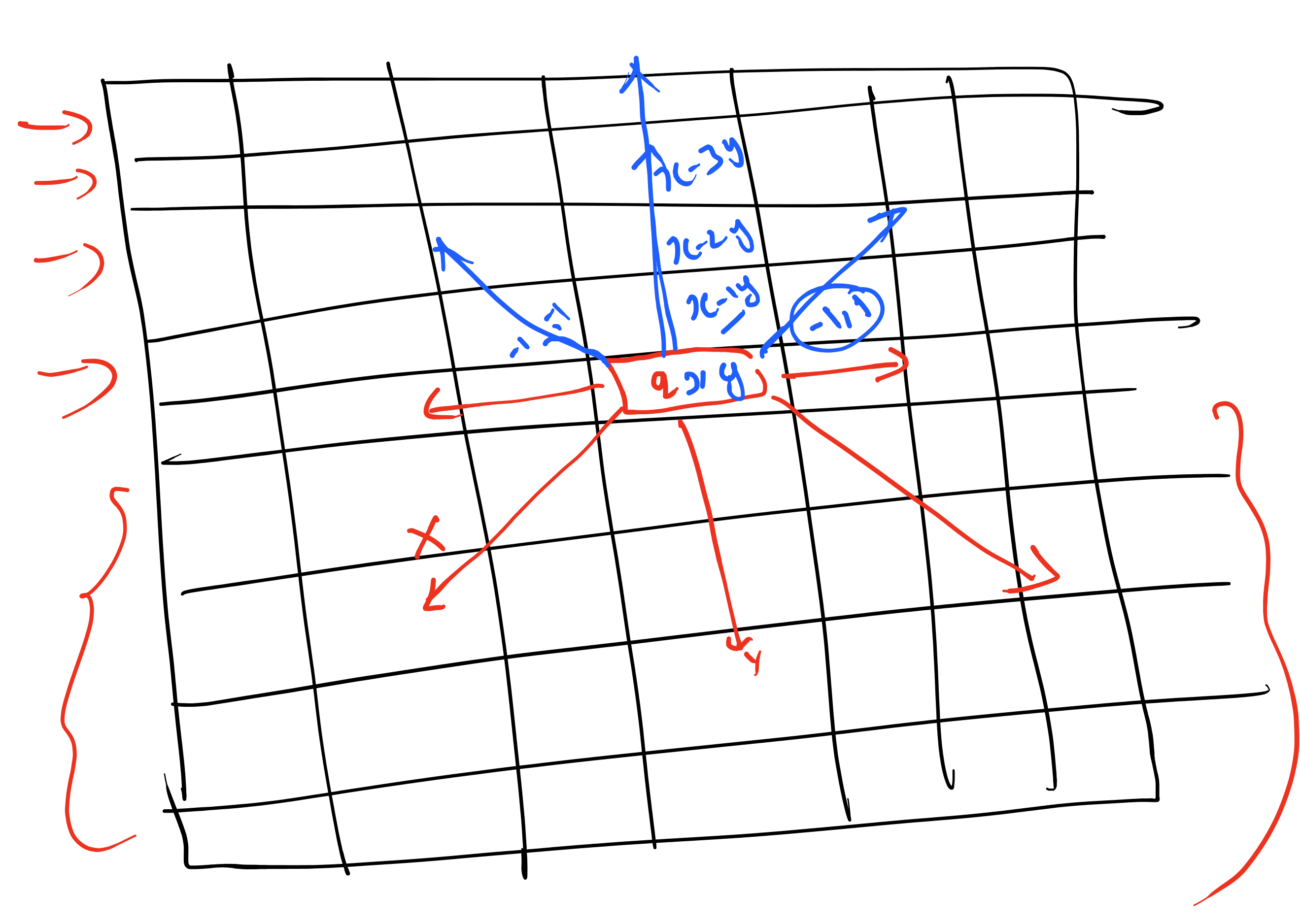


```

public static void Print(boolean[][] board, int row, int tq) {
    if (tq == 0) {
        Display(board);
        return;
    }
    for (int col = 0; col < board[0].length; col++) {
        if (isitsafe(board, row, col) == true) {
            board[row][col] = true; // Queen placed hogya
            Print(board, row + 1, tq - 1);
            board[row][col] = false;
        }
    }
}
    
```

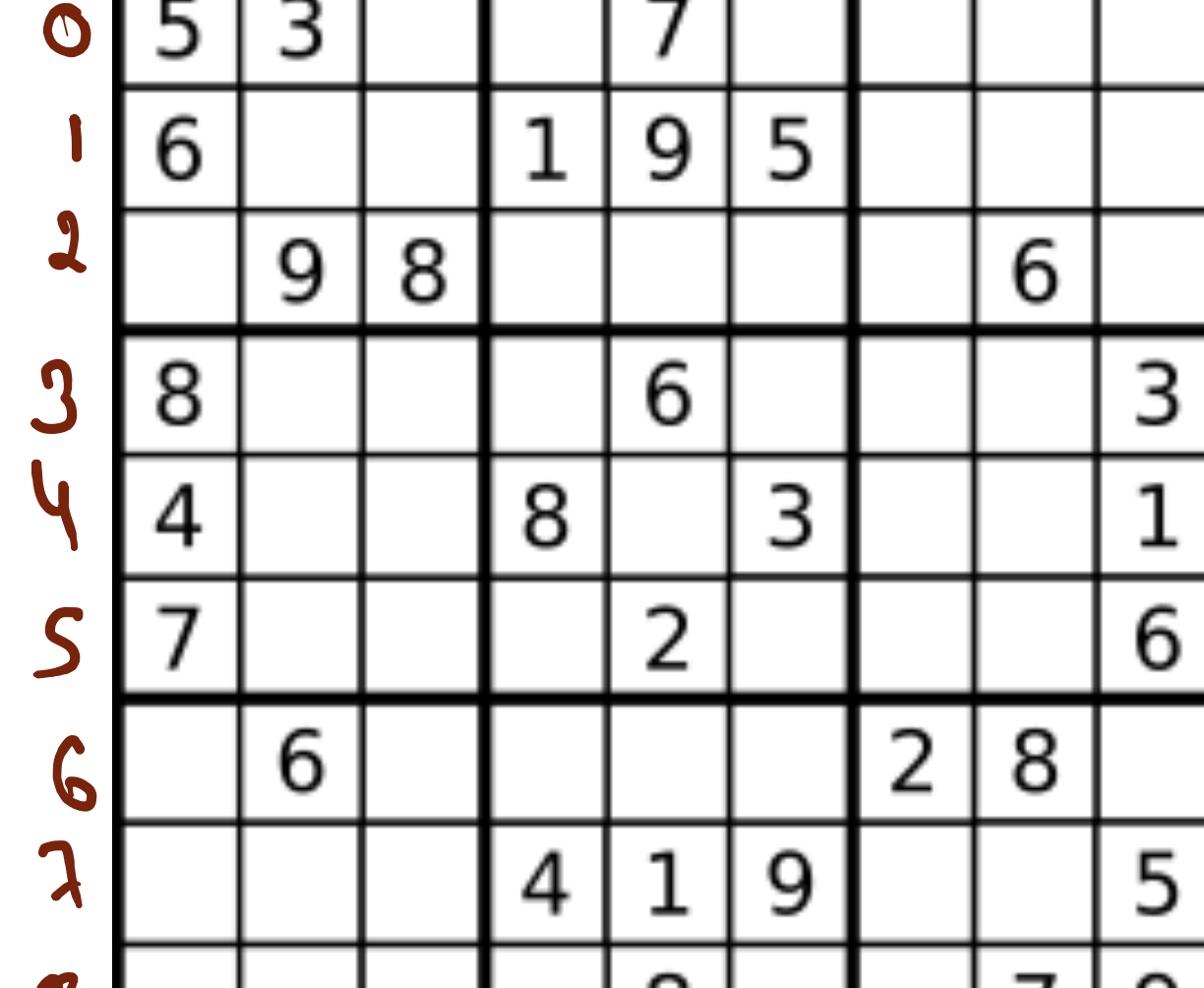
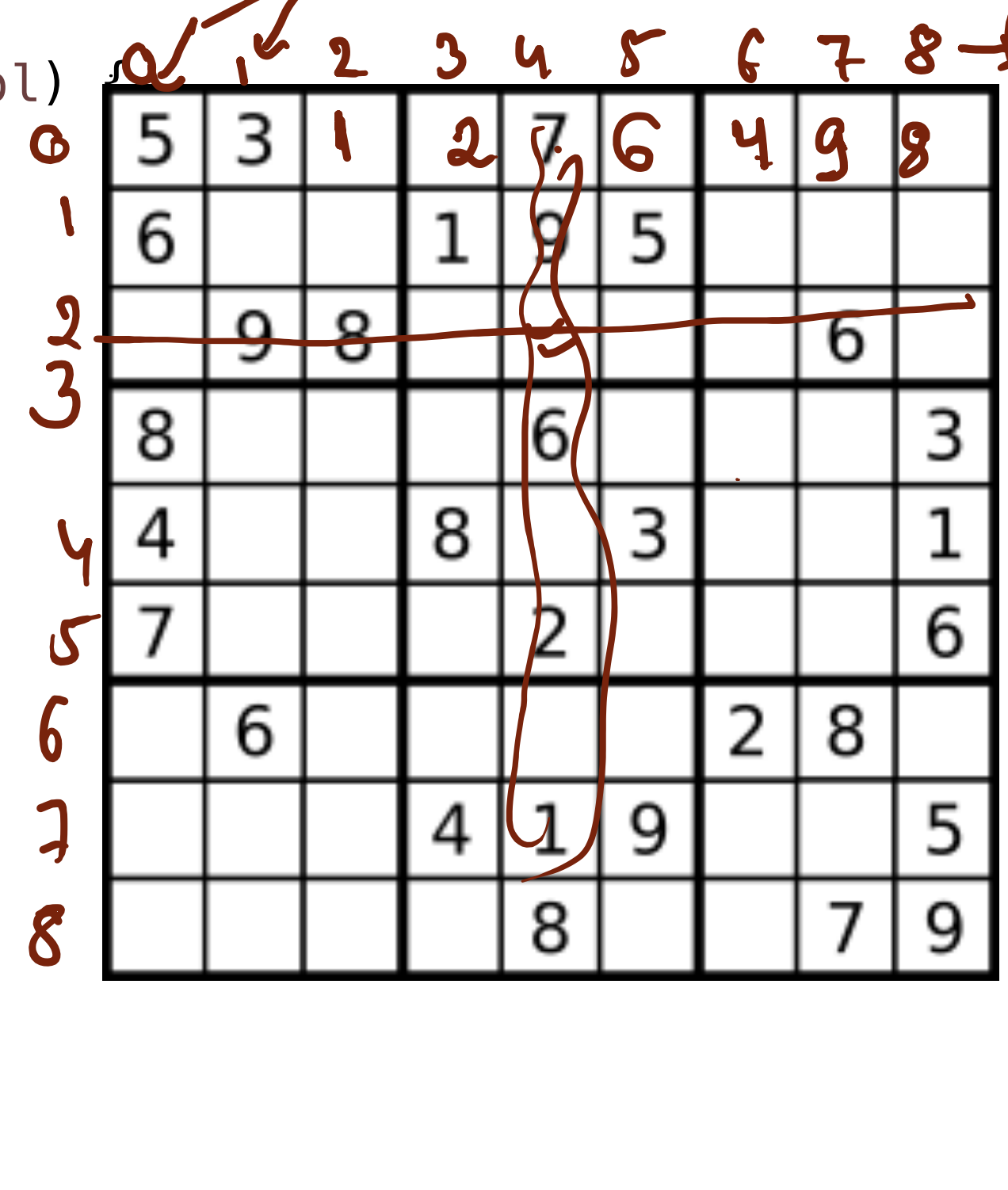


F T F F  
F A F T  
T F F F  
F A T F



```

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);
                grid[row][col] = 0;
            }
        }
    }
    return true;
}
    
```



Row = [0, 1, 2, 3, 4, 5, 6, 7, 8]  
Col = [0, 1, 2, 3, 4, 5, 6, 7, 8]  
(4, 7) -> (3, 6)  
C = col - col \* 3 -> 7 - 7 \* 3 = 7 - 21 = -14  
R = row - row \* 3 -> 4 - 4 \* 3 = 4 - 12 = -8