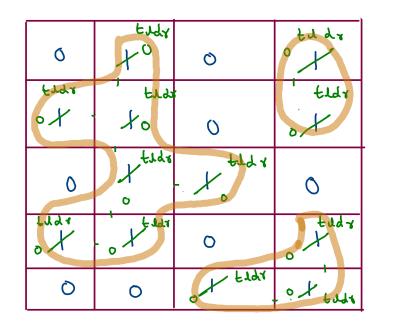
## 200. Number of Islands

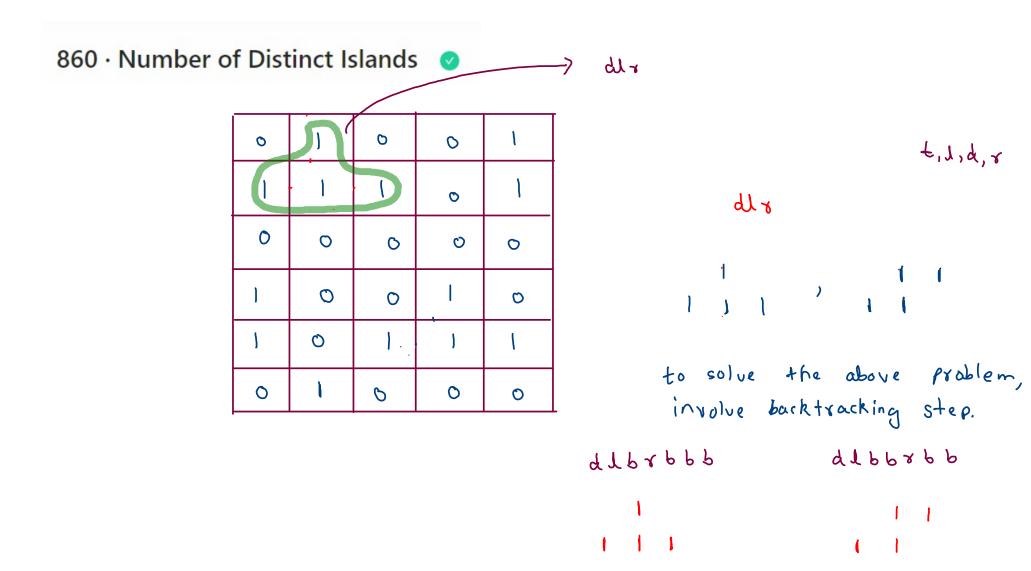


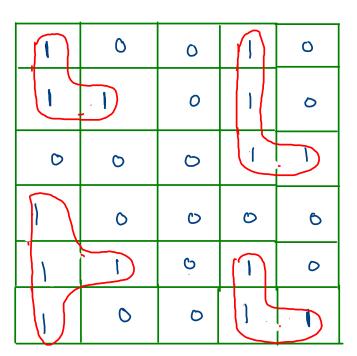
```
djs (0,3)
djs (3.3
```

```
int[][]dir = {{-1,0},{0,-1},{1,0},{0,1}}; //tldr

public void dfs(char[][]grid,int i,int j) {
    grid[i][j] = '0';
    for(int k = 0; k < 4;k++) {
        int ni = i + dir[k][0];
        int nj = j + dir[k][1];

        if(ni >= 0 && ni < grid.length && nj >= 0 && nj < grid[0].length && grid[ni][nj] == '1') {
            dfs(grid,ni,nj);
        }
    }
}</pre>
```

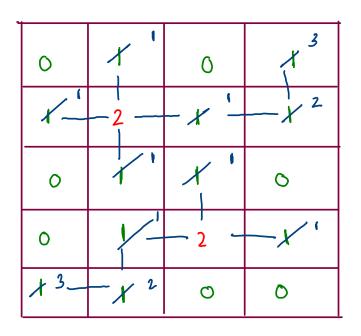




Sb = 27666

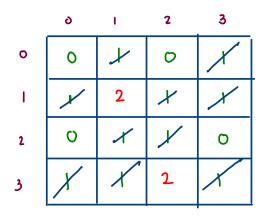
## 994. Rotting Oranges

multiple src BFS



0 -> emply rell 1 -> Jresh orange 2 -> rotten orange

BFS: min no. of Steps



Pair 3
in+ i;
in+ j;
in+ t;

1) remove

2) add unvis nor and mark them.

1,10 3,2,0 0,1/1	1) (10)1 1 1 1	1 2 1 2 2 1	12/1/22/1	1.2 2 2 2 2	0.2/2
(3/2,8) 3/2			1 1 1 1/6 1 11/6 1	1/0, 2 319,2	(0)3/3

while (q. size() >0)?

1) remove

(2) mark\*

3 work

(9) add unvisited nbx

-) marking on removal

while (q. size() >0) ?

() remove

2) work

3) add unvis nby and mark them

visited

-> marking on addition

```
for(int i=0; i < grid.length;i++) {</pre>
    for(int j=0; j < grid[0].length; j++) {</pre>
                                                                                                                    4
                                                                            0
                                                                                                  2
                                                                                                           3
         if(grid[i][j] == 2) {
              q.add(new Pair(i,j,0));
                                                                                     0
                                                                      0
                                                                             0
         else if(grid[i][j] == 1) {
              fo++;
                                                                                                                                      time = 3
                                                                                     0
//bfs
                                                                                                                     0
                                                                      2
while(q.size() > 0) {
    //remove
    Pair rem = q.remove();
    time = Math.max(time,rem.t);
                                                                            0
                                                                     3
                                                                                      0
    //add unvis and mark them as well
    for(int k = 0; k < 4; k++) {
       int ni = rem.i + dir[k][0];
        int nj = rem.j + dir[k][1];
       if(ni >= 0 && ni < grid.length && nj >= 0 && nj < grid[0].length && grid[ni][nj] == 1) {
                                                                                                               10=HX482X0
           q.add(new Pair(ni,nj,rem.t+1));
           grid[ni][nj] = 2;
           fo--;
if(fo == 0) {
    return time;
 else {
    return -1;
```