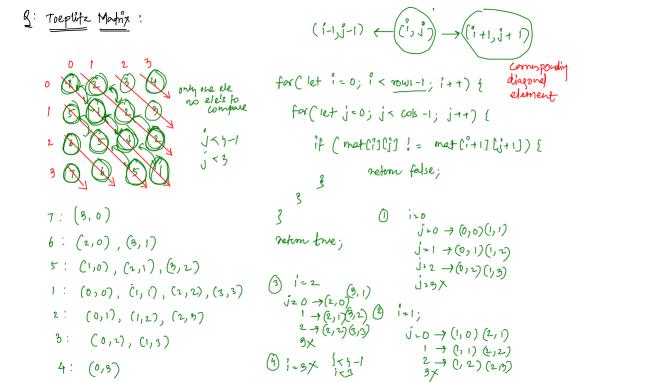


9: Maxima and minima: for (let 1=0; ix nows; i++) of for (let j=0; j < 6/15; j++) { go to every let mink = minkow (mat, 1); 7 mows element and let maje = maje Gol (mat, g); 5 + cols check whether 5 it is the minimum ->nws if (mat (i) (j) == mink &f the of the ROW and mat(i)(i) == maxe) f maximum the of Gol retorn mat[i][i]; minto = 1 minto = 1 minko =1 may (2 = 9 mays Co = 1 may (1 = 8 mink2 = 7 retum -1; SC: 0(1) maxco = 7 TC: 0 (nows + cols + (nows + cols)) If nows = = cols = = n 7 0(n * n + 2n) -) 0(2h3) → 0 (n3)

optimize / tmpove: (precomputation technique) for (let 1=0; ix nows; i++) { mintleRow for (let j=0; j x 6018; j++) { let mink = mintleRow [i]; } OCI)
let maxC = maxtle col [i]; (e|s) if (mat (i) (j) == mink &f mat(i)(i) == maxe) f max He Col retorn mat[i][i]; 0 (nows + cols) for pre computation TC: pecongulation + logic 0(mm + cols + mus + cols) =) 0(n2+n2) => 0(2n2) if now 2 wls 2 n => O(n2) | SC: O(now + wls) => O(2n) => O(n)]

```
function maximaMinima(mat) {
 const minEleRow = [];
     if (mat[i][i] < minEleRow[i]) {</pre>
       minEleRow[i] = mat[i][j];
     if (mat[i][j] > maxEleCol[j]) {
     const minR = minEleRow[i];
     const maxC = maxEleCol[j];
     if (mat[i][j] == minR && mat[i][j] == maxC) {
       return mat[i][j];
```

```
D
                                                min
                                                Ele
                    3
  Ð
                    6
       4
             5
 2
ninfle Row [0] - min val in oth ROW
                                       11<0
maxtle Col [1] -> mayo val in 1st col
                                          17-00
                                           27-20
      97-00
```



1) What did you like the most
2) What did you hate the most
3) One/two word about he module
The Methods/Techniques {
Trunning stream
precomputation
two points
rotation (ayclic -> %)
Jenerating pair, hiplets, subaways