## Salle Poist 6 - https://www.geeksforgeeks.org/saddle-point-matrix/

0123 14,5,4 27,8,9 01,2 01,2 01,2 01,2 01,2 1. min in now 2. max in Col voil Saddle Point (arr) &

Nes = -1

Jor (i=0; iL ans.lngth; it+) &

cure; ansisto] = cure(ol=0

Jor (j=1; j Lans(or.lngth; j++) &

y (cure) ans Eis (is) ) &

cure = arr [is] [is];

cure = col= i;

Jor (j=0; j Lans.lngth; j++) &

y (arr [is] [cure = col] > cure) &

flag = false;

y (flag = = true) res = cure;

?

South  $\begin{bmatrix} 0 & 1 & 2 & 3 \\ 0 & 4 & 6 & 7 \\ 1 & [0] & [15] & 9 \\ 2 & [33] & 21, 12 \end{bmatrix}$  i = 8 + 2

Sout (res):

Int con une have multiple Sabble

Foint in an arroy?

```
int res = -1;
for (int i = 0; i < arr.length; i++) {
   int curr = arr[i][0], currCol = 0;
   for (int j = 1; j < arr[0].length; j++) {
      if (curr > arr[i][j]) {
        curr = arr[i][j];
        currCol = j;
      }
   }
   boolean flag = true;
   for (int j = 0; j < arr.length; j++) {
      if (arr[j][currCol] > curr) {
```

```
flag = 1
J_= 2/23
```

```
boolean flag = true;
for (int j = 0; j < arr.length; j++) {
    if (arr[j][currCol] > curr) {
        flag = false;
        break;
    }
    if (flag) {
        res = curr;
    }
}
return res;
}
```

## Search is a sorted matin

```
1000
                          647
                                        1000
                           671
                          20
                                  J=D] Surap cole | J=1] Surap Pare
Trans form to Cheuboury
                            0
                                                                 10/02
                         0
                                                    0
                                                       1
                                                          0
               1
                  0
           46
                                0
                                   1
                                                       0
                                                          1
               1
                  0
                                      1
            0
               0
                                   0
                  1
                                1
                                                          0
                        2
                                  0
                                                         J
                                       0
           0 10
                             0
```

