Rotation check in matrix forlik = 1; [xn; [+1){ revesse arrid, 123 rousse () 3 2 snust () for (in b) = 0; i < n', j +) artiffij] != artid[j]
when

123

int avoid = new inters for (int j=0; j<n; j+1) avoid [j] = are [o][j]

```
public static String rotate(int arr[][], int n){
  if(n == 1) {
    return "YES";
}
    int arr1d[] = new int[n];
   rfor(int j = 0; j < n; j++){
          arr1d[j] = arr[0][j];
    int k = 1;
   for(int i = 1; i <n;i++){</pre>
          reverse(arrld, n-k,n-1);
         reverse(arr1d, 0, n-k-1);
         reverse(arrld, 0, n-1);
        for(int j = 0; j < n; j++){
    if(arr[i][j] != arr1d[j]){
        return "NO";
}</pre>
     return "YES";
}
```

```
SC70(n)
7(70(nxn)
```

```
public static void reverse(int arr[], int i, int j){
    while(i < j){
        swap(arr, i ,j);
        i++;
        j--;
}

public static void swap(int arr[], int x, int y){
    int temp = arr[x];
    arr[x] = arr[y];
    arr[y] = temp;
}</pre>
```

Count man 1's in notice

```
int rindex = -1;
 int maxcount = 0;
                                               Tc 30(nxn)
 for(int i = 0; i < n; i++){
      int currCount = 0;
    /if(currCount > maxcount){
         maxcount = currCount;
rindex = i;
 // print
rac{1}{rindex} == -1)
      Syso(-1);
  for(int j = 0; j < n; j++){
    syso(arr[rindex][j] + " ");
}</pre>

    else{
```

HW_Search in a sorted matrix

```
public static String search(int arr[][], int m, int n, int x){
    int row = 0;
    int col = n-1;
    while(row < m && col >= 0){
        if(arr[row][col] == x){
            return row + "\n"+ col;
        }
        else if(arr[row][col] > x){
            col--;
        }
        else{
            row++;
    }
    return "Not Found";
```

```
TC>0(n)
Sc>0(1)
```