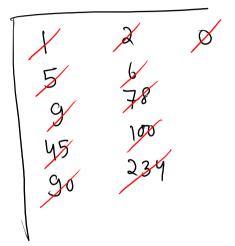
Merge K sorted arrays

$$n = 3$$

$$h=2$$

$$0 = 1$$

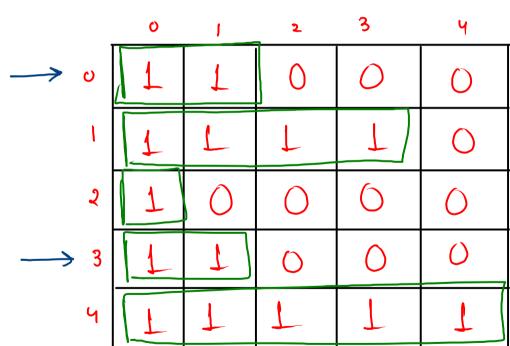


```
T.C = O(N \log N), let N = (K*n)
```

```
public static void main(String[] args) {
     Scanner scn = new Scanner(System.in);
     PriorityQueue<Integer> pq = new PriorityQueue<>();
     int k = scn.nextInt(); ———
     for (int i = 0; i < k; i++) {
    int n = scn.nextInt();
    for (int j = 0; j < n; j++) {
        int val = scn.nextInt();
        pq.add( val );
}</pre>
     while ( !pq.isEmpty() ) {
    System.out.print( pq.poll() + " " );
```

weakest rows (Imp

$$m=5$$
, $n=5$, $k=3$

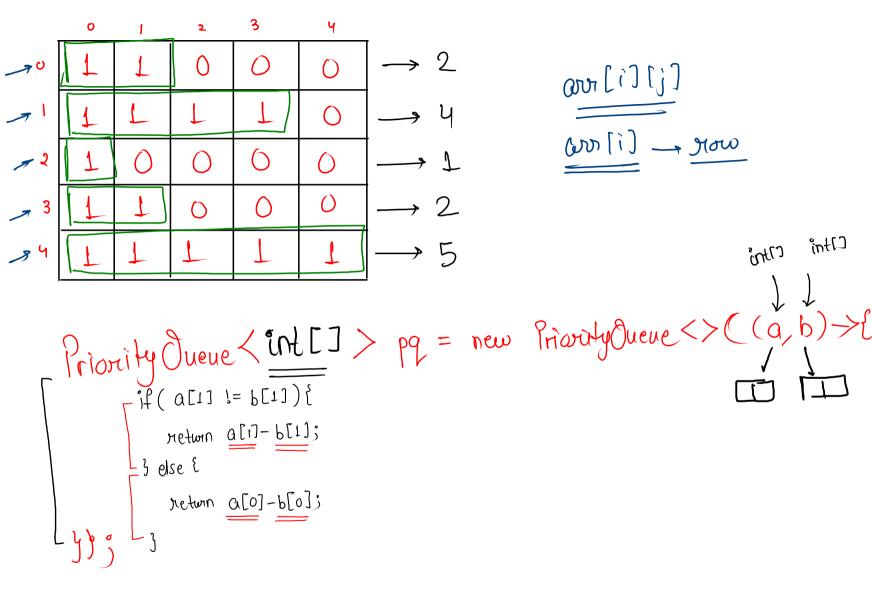


weakest now

$$\frac{2}{0}$$
 and $\frac{2}{3}$

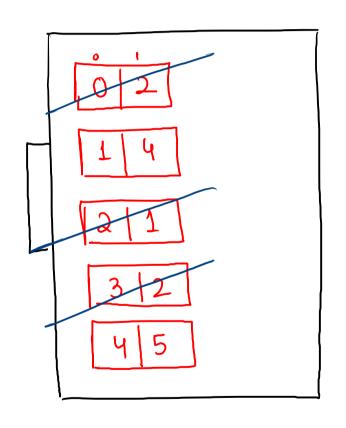
Is less soldiers means weak row

I if soldiers are same then lower index now is weak now

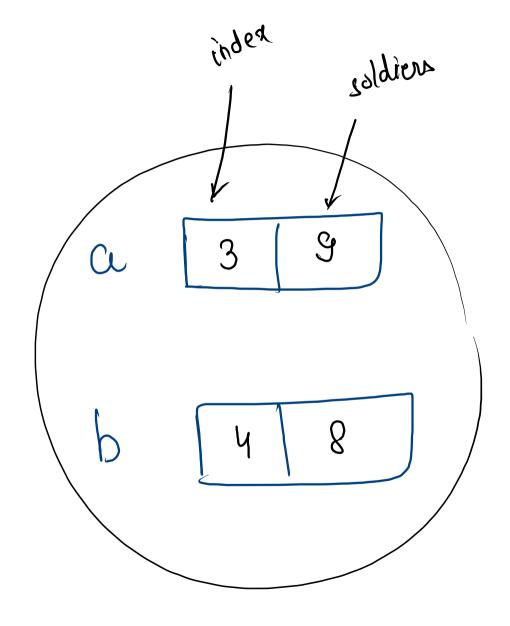


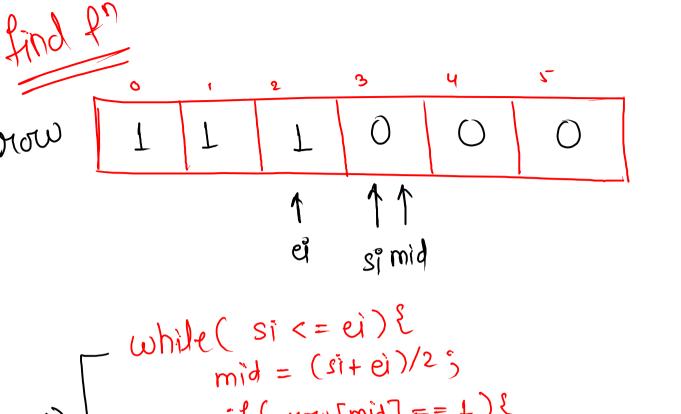
98





an = 2 0 3





```
if ( now [mid] == L) {
    Si = mid+1;
```

ei = mid-1;

) હોક્દર

```
public static void weakestRow(int[][] arr, int m, int n, int k) {
   PriorityQueue<int[]> pq = new PriorityQueue<>((a, b) -> {
                                                       O(m\log(m))
      if (a[1] != b[1]) {
          return a[1] - b[1];
          return a[0] - b[0];
  T.C = O(m \log m + m \log n)
      int[] row = new int[2];
      row[1] = soldiers;
      pq.add(row);
  _for (int i = 0; i < k; i++) {</pre>
                                              T.C \simeq O(n \log(n))
      int[] temp = pq.poll();
      System.out.print( temp[0] + " " );
public static int find(int[] arr) {
   int si = 0;
   int ei = arr.length - 1;
   while ( si <= ei ) {
     int mid = (si + ei) / 2;
      if ( arr[mid] == 1 ) {
          si = mid + 1;
         ei = mid - 1;
```

return si;

high startup: - 50% dieu and 50% DSA 21/pa

Orange Stronges

MNCs: - 40 /pa. - 60 /pa 70% DSA