Kevislon:-Les sorting, lambda function ps arrays, suborray, Kadane's algo la 2 pointers >> Prefix array String & substring
Binary Search (BSLB & BSUB) >> ArrayList 4 Hashmap

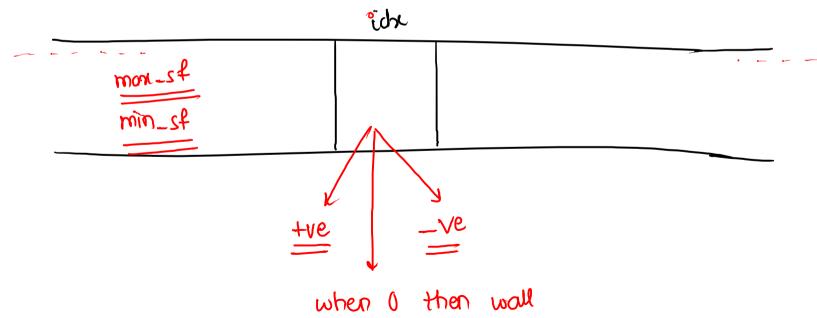
 $2^{\prime}9^{\prime}n^{\prime}$ Ó T -18 Q Q 6 ર maximum_ sum = -\$ \$ 8 sum_so_for = 2 & X & 8 - 10 X 35 -1

```
code
```

```
public static int kadanesAlgo(int[] arr, int n) {
    int maxSum = Integer.MIN_VALUE;
    int sumsf = 0;
    for (int i = 0; i < n; i++) {
        if (sumsf < 0) {
            sumsf = arr[i];
        } else {
               sumsf = sumsf + arr[i];
        }
        if (sumsf > maxSum ) {
               maxSum = sumsf;
        }
        return maxSum;
}
```



Maximum Product Subarray 2





```
public static void main(String[] args) {
   Scanner scn = new Scanner(System.in);
   int n = scn.nextInt();
   int[] arr = new int[n];
   for (int i = 0; i < n; i++) {
                                                          (coor, cour * mar, cour * min)
       arr[i] = scn.nextInt();
   System.out.println(kadanesAlgo(arr, n));
}
public static int kadanesAlgo(int[] arr, int n) {
   int maxsf = 1:
   int minisf = 1;
   int result = Integer.MIN VALUE;
   for (int i = 0; i < n; i++) {
       int temp = maxsf;
       maxsf = Math.max( arr[i], Math.max( maxsf * arr[i], minisf * arr[i] ) );
       minisf = Math.min( arr[i], Math.min( temp * arr[i], minisf * arr[i] ) );
       result = Math.max( result, maxsf );
   return result;
```

Discussions

$$i \quad i \quad j$$

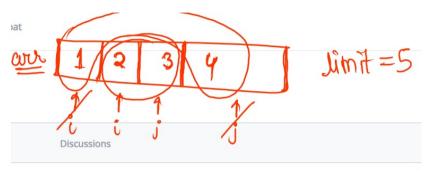
$$\downarrow \qquad \downarrow \qquad \downarrow$$

$$[1 \quad 2 \quad 3 \quad 4]$$

$$sum = \cancel{5} \quad 6$$



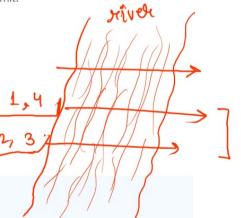
Count boat



veight of the **ith** person, and an infinite number of mit. Each boat carries at most **two people** at the ble is at most limit.



of array.





Submissions: 60 Max Score: 10 Difficulty: Medium

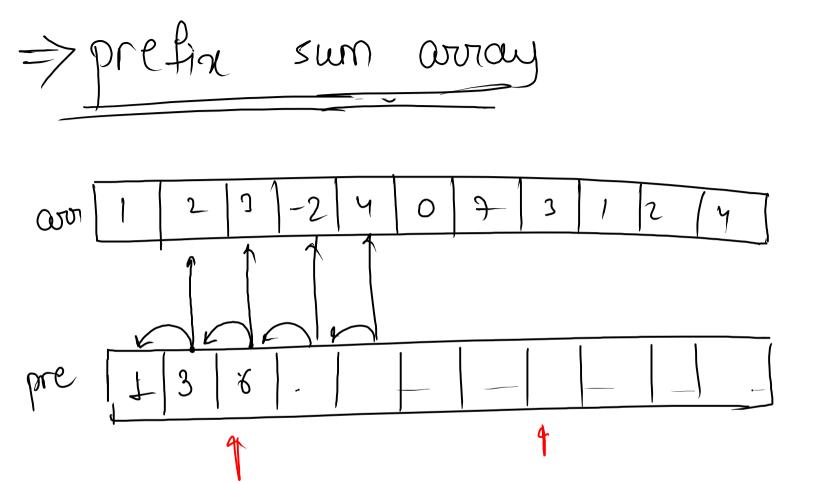
Rate This Challeng 公公公公公公

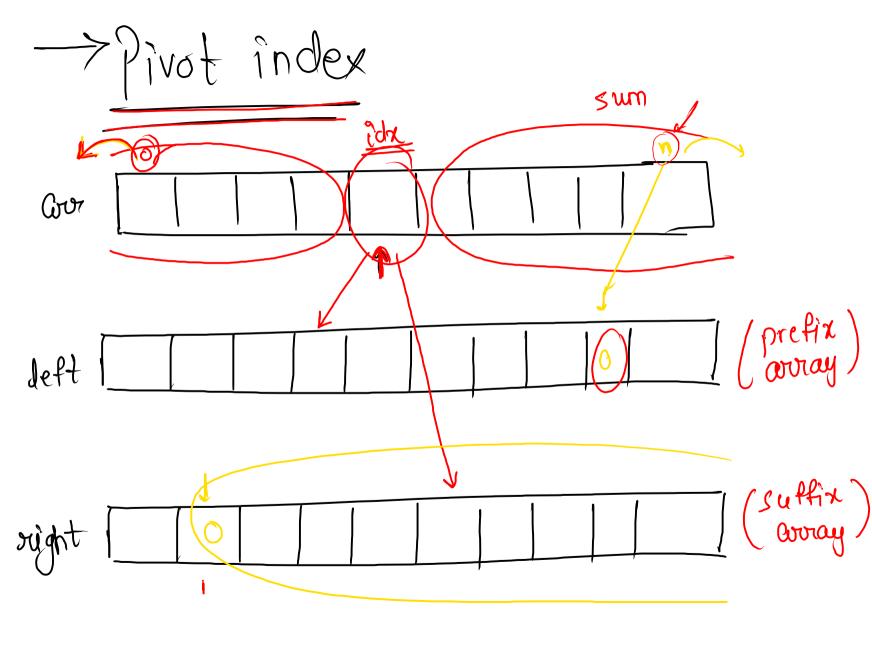
More

```
count=2
```

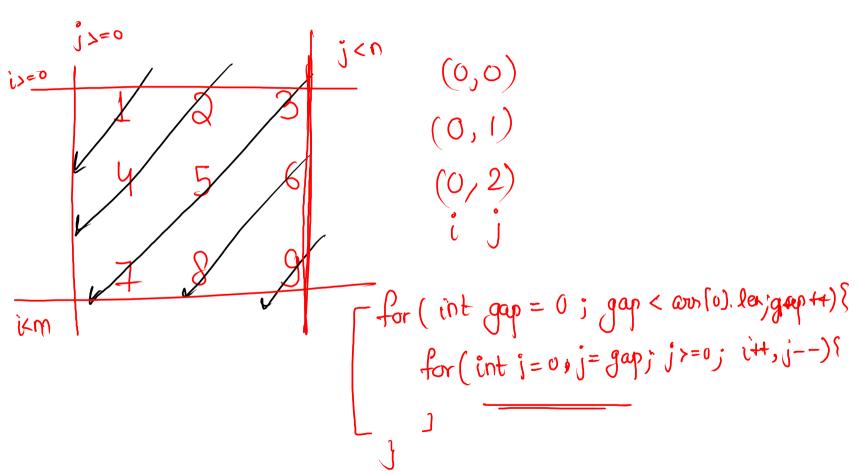
```
public static int countBoats(int[] arr, int n, int limit) {
    Arrays.sort(arr);
    int i = 0;
    int j = n - 1;
    int count = 0;
    while (i <= j) {
        int sum = arr[i] + arr[j];
        if ( sum > limit ) {
            j--;
        } else {
            i++;
            j--;
        }
        count++;
    return count;
}
```

3 Sum

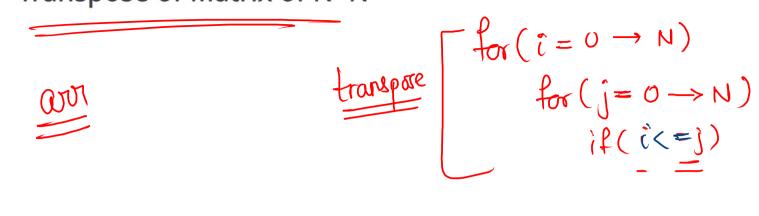


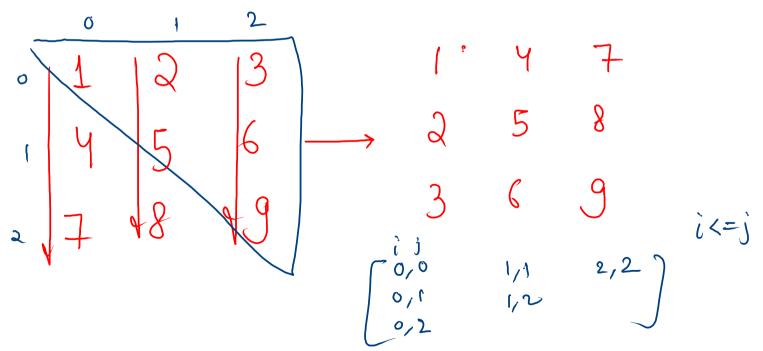


Print the matrix left-diagonal wise

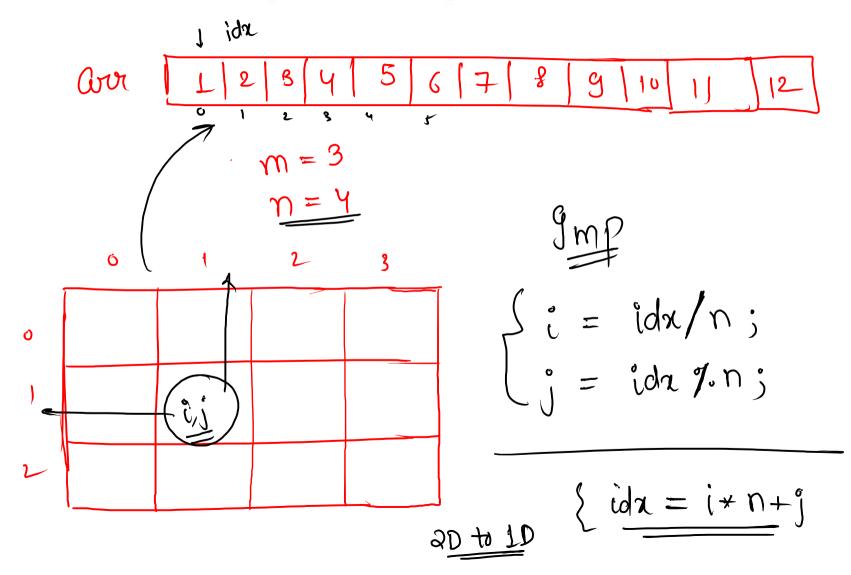


Transpose of Matrix of N*N





Convert 1-D Array to 2-D Array



String Builder sb = new String Builder();

Sb. append (x);

Sb. append (x);

Sb. delete(horAt(idx));

Sb. reverse();

Sb. charAt(idx);

Locate the Target String

```
str = "geekster"

target = "st"
```

```
public static int locateTarget(String str, String tar) {
    for (int i = 0; i <= str.length() - tar.length(); i++) {
        for (int j = 0; j < tar.length(); j++) {
            if ( tar.charAt(j) != str.charAt(i + j) ) {
                break;
        }
        if ( j == tar.length() - 1 ) {
            return i;
        }
    }
    return -1;</pre>
```