Given two sorted arrays A[] and B[] of size N and M. The task is to merge both the arrays into a single array in non-decreasing order.

Input Format

First line take an integer input from user as N , where N is the size of A[] .

Second line takes N elements as Integer input in A[].

Third line take an integer input from user as M, where M is the size of B[].

Next line takes M elements as Integer input in B[].

NOTE:- After answering the question, attempt the related question in the linked resource to improve your understanding of the question . Click here

Constraints

```
1<=N<=200
1<=M<=200
-10^4 <= A[i], B[j] <= 10^4
```

Output Format

Return the merged Array.

Sample Input 0

```
4
1357
4
2468
```

Sample Output 0

```
1 2 3 4 5 6 7 8
```

Explanation 0

The merged array contains all the elements from both arrays in sorted order.

```
1 import java.io.*;
2 import java.util.*;
4 public class Solution f
     public static void main(String[] args) {
    Scanner sc = new Scanner(System.in);
          int n = sc.nextInt();
int A[]= new int[n];
           for(int i=0;i<n;i++)A[i]=sc.nextInt();</pre>
            int m = sc.nextInt();
          for(int i=0;i<m;i++)B[i]=sc.nextInt();</pre>
          int AB[] = new int[n+m];
          int i=0,j=0,k=0;
           while(i<n && j<m){
                if(A[i]<B[j]){
                    AB[k]=A[i];
               }else{
   AB[k]=B[j];
               k++;
          while(i<n){
               AB[k]=A[i]:
               k++;
          while(j<m){
               AB[k]=B[j];
           for(int l=0;l<AB.length;l++)System.out.print(AB[l]+" ");</pre>
```

```
OF [N]
BIMD
ACD=23,3,5,79
    D={2;4,6,8}
AS[]={1,2,3,7,5,6,7,8}
  TAXES into =0
while (ica) AR SKM) {
             if (ACIZ < BC)
            ascij = acij
               else
ps[k]=s[i]
             while Cormol
ABERD = BEXD
```

```
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++) {
          arr[i] = scn.nextInt();
       }
       int ans = kadanesAlgorithm(arr, n);
       System.out.println(ans);
   public static int kadanesAlgorithm(int[] arr, int n) {
       int maxSum = Integer.MIN_VALUE;
       int sumSoFar = 0;
     _ for (int i = 0; i < n; i++) {</pre>
         _ if ( sumSoFar < 0 ) {</pre>
              sumSoFar = arr[i];
              sumSoFar += arr[i];
          if (sumSoFar > maxSum) {
              maxSum = sumSoFar;
       return maxSum;
1, 2, 3, M, 5
```

[7,2,3,4,5) 1+2+3+4+5.

jos (j=0; j<n; j+t) {

;f(sums o) sums faritam(;);

som sofara += con(;);

11- (sumsofares mansum) max Sum = Sumsofar

9.