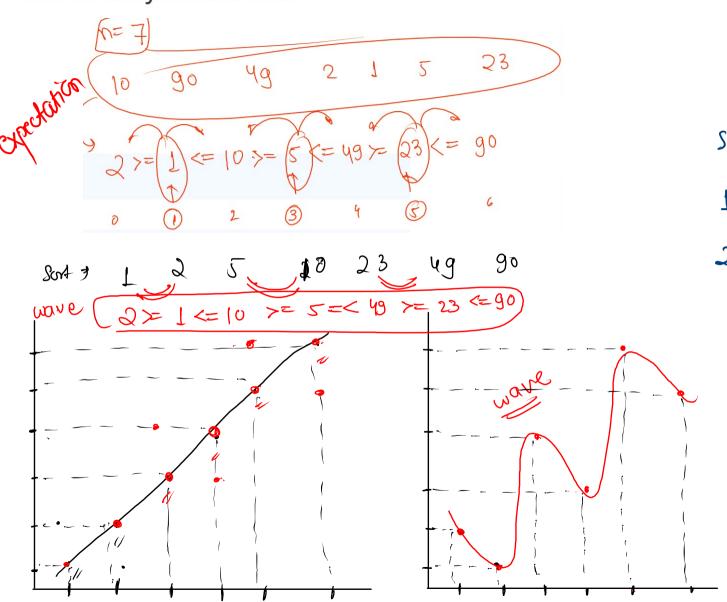




```
You are screen snaring
public static void main(String[] args) {
   Scanner scn = new Scanner(System.in);
   int n = scn.nextInt();
   int[] arr1 = new int[n];
   for (int i = 0; i < n; i++)
       arr1[i] = scn.nextInt();
   int m = scn.nextInt();
   int[] arr2 = new int[m];
   for (int i = 0; i < m; i++)
       arr2[i] = scn.nextInt();
   merge2SortedArrays(n, arr1, m, arr2);
                                                                                                                         TF
public static void merge2SortedArrays(int n, int[] arr1, int m, int[] arr2) {
   int[] ans = new int[n + m];
                                                                                             5
                                                                                2
                                                                   ons=)
   int i = 0;
   int j = 0;
   int k = 0;
                                                                                                 COXX
                                                                                     5 <=1
   while ( i < n && j < m ) {
       if ( arr1[i] <= arr2[j] ) { // ith element of array A is smaller
           ans[k] = arr1[i];
                                                                                     5 <= 2
                                                                                                  \propto
           k++;
           i++; - 0,1,2
       } else {
                                  // jth element of array B is smaller
                                                                                      5 (=4
                                                                                                 24
           ans[k] = arr2[j];
           k++;
                                                           ルギラ
                                                                                      5<= 9
           j++;
                                                                                      7<=9
                                                              5
                                                     anl
   while ( i < n )
       ans[k] = arr1[i];
                                                           m=5
       k++;
       j++;
                                                                                           10
                                                    OUN 2
   while (j < m)
     → ans[k] = arr2[j];
     k++;
      - j++;
   // print
   for (int a = 0; a < ans.length; a++) {
       System.out.print(ans[a] + " ");
```

Sort an array in wave form 1



- 1) sort the array
 2) Swap each consigntive element

(1+5 , 3)

```
public static void waveForm(int[] arr, int n) {
   Arrays.sort(arr);
   (=0 (0,1)
   for (int i = 0; i < n - 1; i+=2) {
      swap(arr, i, i + 1);
public static void swap(int[] arr, int x, int y) {
   int temp = arr[x];
   arr[x] = arr[y];
   arr[y] = temp;
                   15
                            20
                                          3
    2>= 1<= 4>= 3 <=6>= 5<= 9>= 7<= 13>= 9 <=18>= 15<=26
```