**package** question17;

**class** SortWave

{

**void** swap(**int** arr[], **int** a, **int** b)

{

**int** temp = arr[a];

arr[a] = arr[b];

arr[b] = temp;

}

**void** sortInWave(**int** arr[], **int** n)

{

**for** (**int** i = 0; i < n; i+=2)

{

**if** (i>0 && arr[i-1] > arr[i] )

swap(arr, i-1, i);

**if** (i<n-1 && arr[i] < arr[i+1] )

swap(arr, i, i + 1);

}

}

**public** **static** **void** main(String args[])

{

SortWave ob = **new** SortWave();

**int** arr[] = {10, 90, 49, 2, 1, 5, 23};

**int** n = arr.length;

ob.sortInWave(arr, n);

**for** (**int** i : arr)

System.***out***.print(i+" ");

}

}