import java.util.\*;

class GFG

{

// function to print half of the array in

// ascending order and the other half in

// descending order

static void printOrder(int[] arr, int n)

{

    // sorting the array

    Arrays.sort(arr);

    // printing first half in ascending

    // order

    for (int i = 0; i < n / 2; i++)

        System.out.print(arr[i]+" ");

    // printing second half in descending

    // order

    for (int j = n - 1; j >= n / 2; j--)

    System.out.print(arr[j]+" ");

}

// Driver code

public static void main(String[] args)

{

    int[] arr = { 5, 4, 6, 2, 1, 3, 8, 9, 7 };

    int n = arr.length;

    printOrder(arr, n);

}

}

/\* This code is contributed by Mr. Somesh Awasthi \*/

public class SecondLargestInArrayExample{

public static int getSecondLargest(int[] a, int total){

int temp;

for (int i = 0; i < total; i++)

{

for (int j = i + 1; j < total; j++)

{

if (a[i] > a[j])

{

temp = a[i];

a[i] = a[j];

a[j] = temp;

}

}

}

return a[total-2];

}

public static void main(String args[]){

int a[]={1,2,5,6,3,2};

int b[]={44,66,99,77,33,22,55};

System.out.println("Second Largest:"+getSecondLargest(a,6));

System.out.println("Second Largest:"+getSecondLargest(b,7));

}}

1. package com.candidjava;
3. public class SecondLargest {
5. public static void main(String[] args) {
7. int arr[] = { 14, 46, 47, 86, 92, 52, 48, 36, 66, 85 };
8. int largest = arr[0];
9. int secondLargest = arr[0];
11. System.out.println("The given array is:" );
12. for (int i = 0; i < arr.length; i++) {
13. System.out.print(arr[i]+"\t");
14. }
15. for (int i = 0; i < arr.length; i++) {
17. if (arr[i] > largest) {
18. secondLargest = largest;
19. largest = arr[i];
21. } else if (arr[i] > secondLargest) {
22. secondLargest = arr[i];
24. }
25. }
27. System.out.println("\nSecond largest number is:" + secondLargest);
29. }
30. }

public class ThirdLargestNumberInAnArray {

   public static void main(String args[]){

      int temp, size;

      int array[] = {10, 20, 25, 63, 96, 57};

      size = array.length;

      for(int i = 0; i<size; i++ ){

         for(int j = i+1; j<size; j++){

            if(array[i]>array[j]){

               temp = array[i];

               array[i] = array[j];

               array[j] = temp;

            }

         }

      }

      System.*out*.println("Third second largest number is:: "+array[size-2]);

   }

}