

Write a java Program to sort Half Array using Ascending order and Remaining using Descending Order

Program :

```
package com.onkar;

import java.util.Scanner;

public class Main {
    public static void main(String[] args) {
        Scanner s = new Scanner(System.in);
        int n;
        System.out.println("Enter number of elements in array : ");
        n = s.nextInt();

        int[] arr = new int[n];
        for(int i=0; i<n; i++){
            System.out.println("Enter element "+i+" : ");
            arr[i] = s.nextInt();
        }

        System.out.println("Array Elements are : ");
        for(int i=0; i<n; i++){
            System.out.print(arr[i]+" ");
        }

        int mid = n/2;
        for(int i=0; i<=mid; i++){
            for(int j=i+1; j<=mid; j++){
                if(arr[i] > arr[j]){
                    int temp = arr[i];
                    arr[i] = arr[j];
                    arr[j] = temp;
                }
            }
        }

        for(int i=mid+1; i<n; i++){
            for(int j=i+1; j<n; j++){
                if(arr[i] < arr[j]){
                    int temp = arr[i];
                    arr[i] = arr[j];
                    arr[j] = temp;
                }
            }
        }

        System.out.println("\nSorted Array Elements are : ");
        for(int i=0; i<n; i++){
            System.out.print(arr[i]+" ");
        }
    }
}
```

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Output 1:

```
"C:\Program Files\Java\jdk-16.0.1\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.1.1\lib\idea_rt.jar=49737:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.1.1\bin" -Dfile.encoding=UTF-8 -classpath D:\gitdata\Java_prgrms\Midsem\out\production\Midsem com.onkar.Main
```

Enter number of elements in array :

6

Enter element 0 :

33

Enter element 1 :

11

Enter element 2 :

1

Enter element 3 :

44

Enter element 4 :

55

Enter element 5 :

66

Array Elements are :

33 11 1 44 55 66

Sorted Array Elements are :

1 11 33 66 55 44

Process finished with exit code 0

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Output 2:

```
"C:\Program Files\Java\jdk-16.0.1\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.1.1\lib\idea_rt.jar=60629:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.1.1\bin" -Dfile.encoding=UTF-8 -classpath D:\gitdata\Java_prgrms\Midsem\out\production\Midsem com.onkar.Main
```

Enter number of elements in array :

7

Enter element 0 :

44

Enter element 1 :

33

Enter element 2 :

22

Enter element 3 :

11

Enter element 4 :

55

Enter element 5 :

66

Enter element 6 :

77

Array Elements are :

44 33 22 11 55 66 77

Sorted Array Elements are :

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11 22 33 44 77 66 55

Process finished with exit code 0