C:\java lab\Matrix.java - Notepad++

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quad.java | array4.java | inheritance_1.java | shape_area.java | bank.java | PAL.ASM | Agemain.java | Empmain1.java | Matrix.java | CircledemoMain.java | ActorMain.java | CmdArray.java | Prog2.java

```
import java.util.*;
class Matrix
{
    public static void main(String args[])
    {
        int m,n,i,j;
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the value of rows and coloumns:");
        m = sc.nextInt();
        n = sc.nextInt();
        int matrix[][]= new int[m][n];
        for(i=0;i<m;i++)
        {
            for(j=0;j<n;j++)
            {
                System.out.println("Enter the element:"+i + j);
                matrix[i][j]= sc.nextInt();
            }
        }
        System.out.println("Inputted matrix:\n");
        for(i=0;i<m;i++)
        {
            for(j=0;j<n;j++)
            {
                System.out.print(matrix[i][j]+"\t");
            }
            System.out.println();
        }
        int transpose[][]= new int[n][m];
        for(i=0;i<m;i++)
        {
            for(j=0;j<n;j++)
            {
                transpose[j][i]=matrix[i][j] ;
            }
        }
        System.out.println("Transpose matrix:\n");
        for(i=0;i<n;i++)
        {
            for(j=0;j<m;j++)
            {
```

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```
9           m = sc.nextInt();
10          n = sc.nextInt();
11          int matrix[][]= new int[m][n];
12          for(i=0;i<m;i++)
13          {
14              for(j=0;j<n;j++)
15              {
16                  System.out.println("Enter the element:"+i + j);
17                  matrix[i][j]= sc.nextInt();
18              }
19          }
20          System.out.println("Inputted matrix:\n");
21          for(i=0;i<m;i++)
22          {
23              for(j=0;j<n;j++)
24              {
25                  System.out.print(matrix[i][j]+"\t");
26              }
27              System.out.println();
28          }
29          int transpose[][]= new int[n][m];
30          for(i=0;i<m;i++)
31          {
32              for(j=0;j<n;j++)
33              {
34                  transpose[j][i]=matrix[i][j] ;
35              }
36          }
37          System.out.println("Transpose matrix:\n");
38          for(i=0;i<n;i++)
39          {
40              for(j=0;j<m;j++)
41              {
42                  System.out.print(transpose[i][j]+"\t");
43              }
44              System.out.println();
45          }
46
47      }
48
49  }
```

Command Prompt

```
Enter the element:00
1
Enter the element:01
2
Enter the element:02
3
Enter the element:10
4
Enter the element:11
5
Enter the element:12
6
Enter the element:20
7
Enter the element:21
8
Enter the element:22
9
Inputted matrix:

1       2       3
4       5       6
7       8       9
Transpose matrix:

1       4       7
2       5       8
3       6       9

C:\java lab>
```

C:\java lab\CircledemoMain.java - Notepad++

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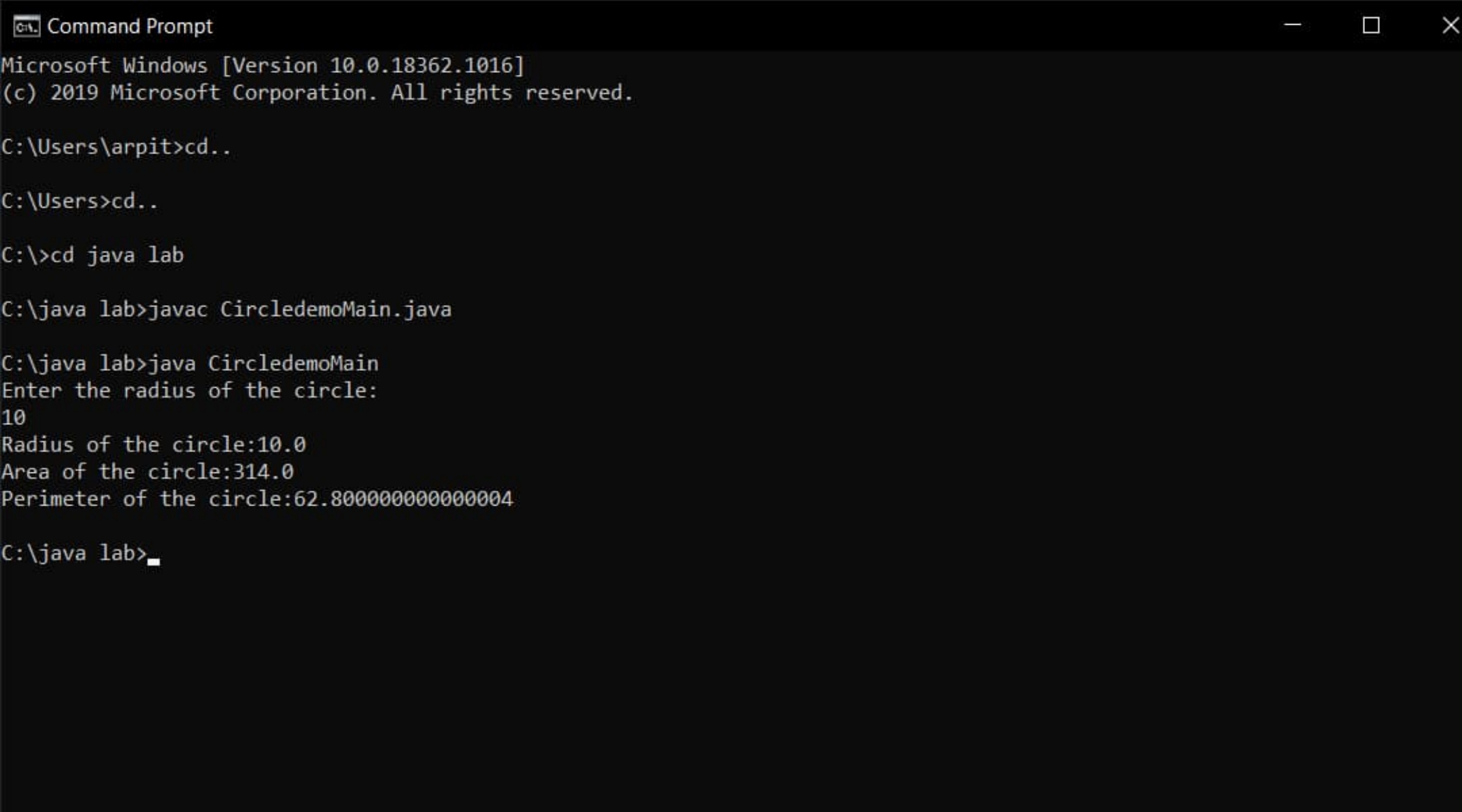
```
1  import java.util.Scanner;
2  class Circledemo{
3      double radius;
4      double area;
5      double perimeter;
6      double pi = 3.14;
7      void getradius(){
8          Scanner sc = new Scanner(System.in);
9          System.out.println("Enter the radius of the circle:");
10         radius = sc.nextDouble();
11     }
12     void Calarea(){
13         area = pi*radius*radius;
14     }
15     void Calperimeter(){
16         perimeter = 2*pi*radius;
17     }
18     void Display(){
19         System.out.println("Radius of the circle:"+radius);
20         System.out.println("Area of the circle:"+area);
21         System.out.println("Perimeter of the circle:"+perimeter);
22     }
23 }
24 class CircledemoMain{
25     public static void main(String args[]){
26         Circledemo D1 = new Circledemo();
27         D1.getradius();
28         D1.Calarea();
29         D1.Calperimeter();
30         D1.Display();
31          }
32 }
```


Command Prompt
Microsoft Windows [Version 10.0.18362.1016]
(c) 2019 Microsoft Corporation. All rights reserved.
C:\Users\arpit>cd..
C:\Users>cd..
C:\>cd java lab
C:\java lab>javac CircledemoMain.java
C:\java lab>java CircledemoMain
Enter the radius of the circle:
10
Radius of the circle:10.0
Area of the circle:314.0
Perimeter of the circle:62.800000000000004
C:\java lab>

C:\java lab\ActorMain.java - Notepad++

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```
1  import java.util.Scanner;
2  class Actor{
3      int Id;
4      String name;
5      int no_of_movies;
6      int no_of_years_exp;
7      float avg;
8      void getdata(){
9      Scanner sc = new Scanner(System.in);
10     System.out.println("Enter the Id: \nName: \nNumber of movies: \nNumber of years(experience):");
11     Id = sc.nextInt();
12     name = sc.next();
13     no_of_movies = sc.nextInt();
14     no_of_years_exp = sc.nextInt();
15     }
16     float calavg(){
17         avg = (no_of_movies/no_of_years_exp);
18         return avg;
19     }
20     void Display(){
21         System.out.println("Id:"+Id+ "\nName:"+name+ "\nNumber of movies:"+no_of_movies+"\nExperience in years:"+no_of_years_exp);
22     }
23 }
24 class ActorMain{
25     public static void main(String args[]){
26         Actor a1 = new Actor();
27         Actor a2 = new Actor();
28         a1.getdata();
29         a2.getdata();
30         a1.calavg();
31         a2.calavg();
32         if (a1.calavg()>a2.calavg()){
33             a1.Display();
34         }
35         else{
36             a2.Display();
37         }
38     }
39 }
```

Command Prompt

```
C:\Users>cd..

C:\>cd java lab

C:\java lab>javac ActorMain.java

C:\java lab>java ActorMain
Enter the Id:
Name:
Number of movies:
Number of years(experience):
123
aaa
5
2
Enter the Id:
Name:
Number of movies:
Number of years(experience):
456
bbb
10
6
Id:123
Name:aaa
Number of movies:5
Experience in years:2

C:\java lab>
```

C:\java lab\CmdArray.java - Notepad++

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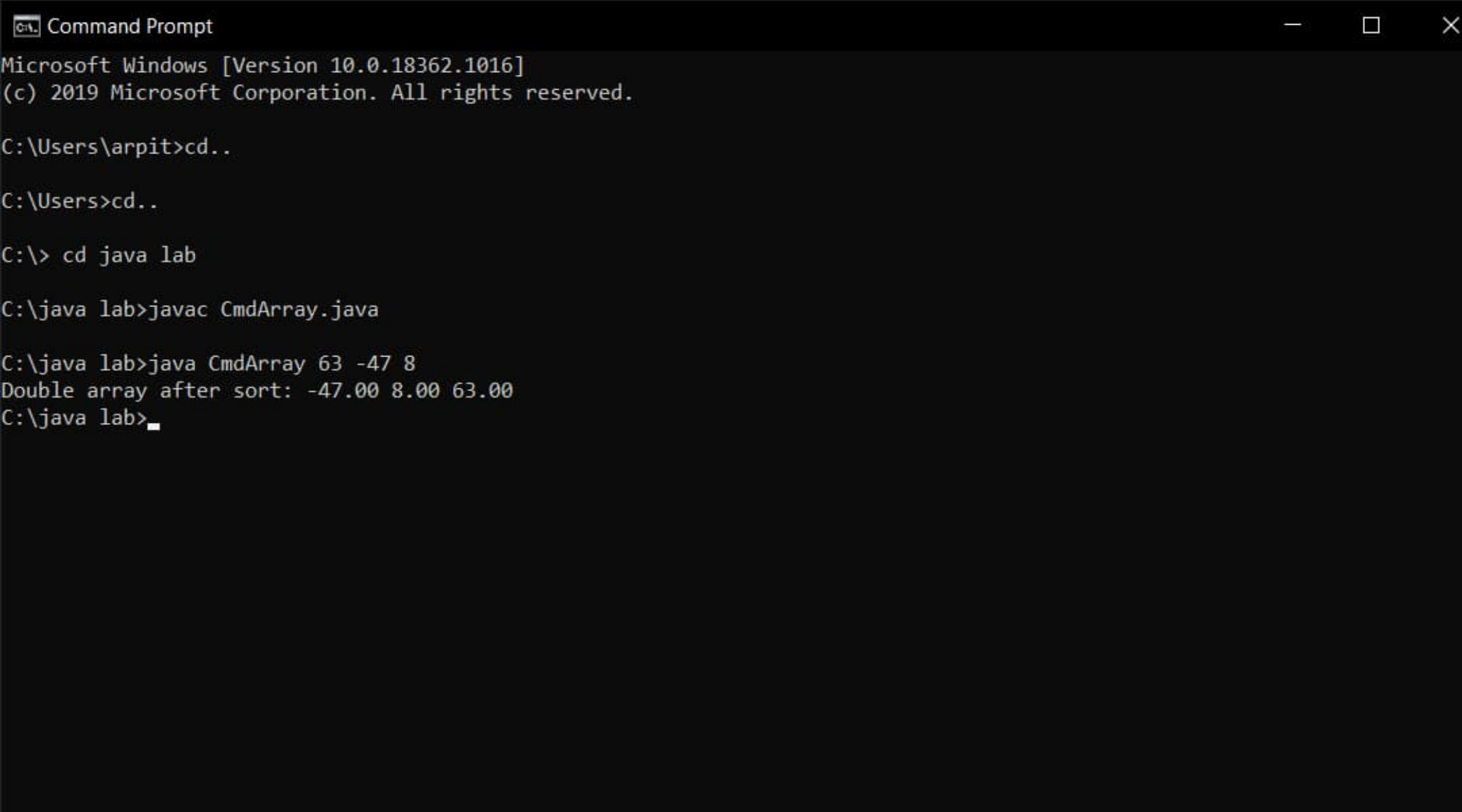
```java
import java.util.Arrays;

public class CmdArray {
    public static void main(String[] args) {
        Double arr[];
        int n = 0;
        for(int i=0;i<args.length;i++){
            n++;
        }
        arr = new Double[n];
        for(int i=0;i<args.length;i++){
            arr[i] = Double.parseDouble(args[i]);
        }
        Arrays.sort(arr);
        System.out.format("Double array after sort: ");
        for(int i=0;i<arr.length;i++){
            System.out.format("%.2f ",arr[i]);
        }
    }
}
```


Command Prompt
Microsoft Windows [Version 10.0.18362.1016]
(c) 2019 Microsoft Corporation. All rights reserved.
C:\Users\arpit>cd..
C:\Users>cd..
C:\> cd java lab
C:\java lab>javac CmdArray.java
C:\java lab>java CmdArray 63 -47 8
Double array after sort: -47.00 8.00 63.00
C:\java lab>