**package** sort;

**import** java.util.Scanner;

**public** **class** SelectionSort {

**public** **static** **void** selectionSort(**int**[] arr){

**for** (**int** i = 0; i < arr.length - 1; i++)

{

**int** index = i;

**for** (**int** j = i + 1; j < arr.length; j++){

**if** (arr[j] < arr[index]){

index = j;

}

}

**int** smallerNumber = arr[index];

arr[index] = arr[i];

arr[i] = smallerNumber;

}

}

**public** **static** **void** main(String a[]){

//int[] arr1 = {9,14,3,2,43,11,58,22};

Scanner sc=**new** Scanner(System.***in***);

System.***out***.println("enter size of array");

**int** n=sc.nextInt();

**int** arr[]=**new** **int**[n];

System.***out***.println("Enter elements in array");

**for**(**int** i=0;i<arr.length;i++) {

arr[i]=sc.nextInt();

}

System.***out***.println("Before Selection Sort");

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

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

}

System.***out***.println();

*selectionSort*(arr);

System.***out***.println("After Selection Sort");

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

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

}

}

}