Executing the program to verify the execution of the selection sort algorithm

Program:

class SelectionSort

{

//selection sort function

void selectionSort(int arr[])

{

int size = arr.length;

for (int j = 0; j < size - 1; j++)

{

int min = j;

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

{

if(arr[i]<arr[min]) min = i;

}

int tmp = arr[j];

arr[j] = arr[min];

arr[min] = tmp;

}

} // method for printing the elements

void display(int arr[])

{

int size = arr.length;

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

System.out.print(arr[i]+" ");

System.out.println();

}

public static void main(String args[]) {  
 int[] arr = { 20, 12, 10, 15, 2 };

SelectionSort ss = new SelectionSort();

System.out.println("Elements after sorting: ");

ss.display(arr);

ss.selectionSort(arr);

System.out.println("Elements before sorting: ");

ss.display(arr); }

}

Output:

Elements before sorting:

2 12 10 15 20

Elements after sorting:

2 12 10 15 20