Code:

```
import java.util.*;
public class Main
{
        public static void main(String[] args) {
          Scanner s=new Scanner(System.in);
                System.out.println("Enter the number of elements");
                int n=s.nextInt();
                int[] arr=new int[n];
                System.out.println("Enter the elements");
                for(int i=0;i<n;i++)
                   arr[i]=s.nextInt();
                for(int i=0;i<n-1;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("After sorting:");
                for(int i=0;i<n;i++)
                   System.out.print(arr[i]+" ");
                }
```

```
}
```

Output:

```
Enter the number of elements

5
Enter the elements

15 13 21 11 10
After sorting:

10 11 13 15 21

...Program finished with exit code 0
Press ENTER to exit console.
```

```
Enter the number of elements

10

Enter the elements

3 6 2 4 8 7 9 1 5 10

After sorting:

1 2 3 4 5 6 7 8 9 10

...Program finished with exit code 0

Press ENTER to exit console.
```

Time complexity and space complexity:

250	Space complexity
	axx [] -> of n words
	i -31 word
	j -> I word
	Size - 1 word
	g(n) = n + 3
	ignoring exponent values and coefficients,
	space complexiby = O(n)