

Main.java

Share

Run

```
1- public class sequentialSearch{
2-     public static int sequentialSearch(int[] arr,int target){
3-         for(int i=0;i<arr.length;i++){
4-             if(arr[i]==target){
5-                 return i;
6-             }
7-         }
8-         return -1;
9-     }
10-     public static void main(String[] args){
11-         int[] arr={17,1,1,83,50,28,29,3,71,22};
12-         int target=29;
13-         int result=sequentialSearch(arr,target);
14-         if(result!=-1){
15-             System.out.println("Elements found at index "+result);
16-         }else{
17-             System.out.println("Elements not found in the array");
18-         }
19-     }
20- }
21 }
```

Output

Clear

java -cp /tmp/ZdTOM02lWc/sequentialSearch  
Elements found at index 6  
  
=== Code Execution Successful ===

Main.java	<div><div></div><div></div><div>Share</div><div>Run</div></div>	<div>Output</div> <div>Clear</div>
	<pre>1- public class BinarySearch{ 2-     public static int binarySearch(int[] arr,int target){ 3-         int left=0; 4-         int right=arr.length-1; 5-         while(left&lt;=right){ 6-             int mid=left+(right-left)/2; 7-             if(arr[mid]==target){ 8-                 return mid; 9-             } 10-            if(arr[mid]&lt;target){ 11-                left=mid+1; 12-            }else{ 13-                right=mid-1; 14-            } 15-        } 16-        return -1; 17-    } 18-    public static void main(String[] args){ 19-        int []sortedArr={2,3,4,10,40,50,70,80,90}; 20-        int target=10; 21-        int result= binarySearch(sortedArr,target); 22-        if(result!=-1){ 23-            System.out.println("Elements not present in the array"); 24-        }else{ 25-            System.out.println("Elements found at index:"+result); 26-        } 27-    } 28- } 29- }</pre>	<pre>java -cp /tmp/e0dJ30JX6w/BinarySearch Elements found at index:3  === Code Execution Successful ===</pre>

Main.java



Share

Run

Output

Clear

```
1- public class BubbleSort{
2-     public static void bubbleSort(int[] arr){
3-         int n=arr.length;
4-         boolean swapped;
5-         for(int i=0;i<n-1;i++){
6-             swapped=false;
7-             for(int j=0;j<n-1-i;j++){
8-                 if(arr[j]>arr[j+1]){
9-                     int temp=arr[j];
10-                    arr[j]=arr[j+1];
11-                    arr[j+1]=temp;
12-                    swapped=true;
13-                }
14-            }
15-            if(!swapped) break;
16-        }
17-    }
18-    public static void printArray(int[] arr){
19-        for(int value : arr){
20-            System.out.print(value + " ");
21-        }
22-        System.out.println();
23-    }
24-    public static void main(String[] args){
25-        int[] arr={56,12,9,34,68};
26-        System.out.println("Unsorted array:");
27-        printArray(arr);
28-        bubbleSort(arr);
29-        System.out.println("Sorted array:");
30-        printArray(arr);
31-    }
}
```

```
java -cp /tmp/jjviPZHcq1/BubbleSort
Unsorted array:
56 12 9 34 68
Sorted array:
9 12 34 56 68

=== Code Execution Successful ===
```

Main.java



Share

Run

Output

Clear

```
1- public class SelectionSort{
2-     public static void selectionSort(int[] array){
3-         int n=array.length;
4-         for(int i=0;i<n-1;i++){
5-             int minIndex=i;
6-             for(int j=i+1;j<n;j++){
7-                 if(array[j]<array[minIndex]){
8-                     minIndex=j;
9-                 }
10-            }
11-            int temp=array[minIndex];
12-            array[minIndex]=array[i];
13-            array[i]=temp;
14-        }
15-    }
16-    public static void printArray(int[]array){
17-        int n=array.length;
18-        for(int i=0;i<n;i++){
19-            System.out.println(array[i]+" ");
20-        }
21-        System.out.println();
22-    }
23-    public static void main(String[]args){
24-        int[]array={66,22,12,9,36};
25-        System.out.println("Original array: ");
26-        printArray(array);
27-        selectionSort(array);
28-        System.out.println("sorted array: ");
29-        printArray(array);
30-    }
31- }
```

```
java -cp /tmp/deFjd1NBeJ/SelectionSort
Original array:
66
22
12
9
36

sorted array:
9
12
22
36
66

=== Code Execution Successful ===
```