

```
1  import java.util.Scanner;
2
3  public class q1 {
4      public static void bubble(int[] arr) {
5          int n = arr.length;
6          int temp = 0;
7
8          for(int i=0; i<n; i++){
9              for(int j=1; j<(n-i); j++){
10                 if(arr[j-1] > arr[j]){
11
12                     temp = arr[j-1];
13                     arr[j-1] = arr[j];
14                     arr[j] = temp;
15
16                 }
17
18             }
19         }
20
21     }
22
23     public static void main(String[] args) {
24
25         int n = 0;
26
27         Scanner s = new Scanner(System.in);
28         System.out.print("Enter number of Integer elements to be sorted: ");
29         n = s.nextInt();
30
31         int arr[] = new int[n]; // Array will have n size
32
33         Scanner e = new Scanner(System.in);
34         for(int i=0; i<n; i++)
35         {
36             System.out.print("Enter integer value for element no. : " +i);
37             arr[i] = e.nextInt();
38
39         }
40
41         System.out.println("Array Before Bubble Sort");
42         for(int i=0; i < arr.length; i++){
43             System.out.print(arr[i] + " ");
44         }
45         System.out.println();
46
47         bubble(arr); // Call the function
48
49         System.out.println("Array After Bubble Sort");
50         for(int i=0; i < arr.length; i++){
51             System.out.print(arr[i] + " ");
52         }
53
54     }
55 }
```