```
1: /*----Insertion Sort Without Loop----*/
 2:
 3: #include <iostream>
4: using namespace std;
 6: int insertion (int arr[], int n, int j, int temp)
7: {
        if(j >= 0 && arr[j] > temp)
8:
9:
             arr[j+1] = arr[j];
10:
             return insertion (arr, n, j - 1, temp);
11:
12:
13:
        return j + 1;
14: }
15:
16: void insertionsort(int arr[], int n, int i)
        if(i < n)
18:
19:
20:
             int temp = arr[i];
21:
             int j = insertion (arr, n, i - 1, temp);
22:
             arr[j] = temp;
23:
             insertionsort(arr, n, i+1);
24:
        }
25: }
26: int main()
27: {
28:
       int n;
29:
       cout << "Enter length" << endl;</pre>
30:
       cin >> n;
31:
32:
       int arr[n];
33:
       cout << "Enter elements:\n";</pre>
34:
       for(int i=0; i < n; i++)</pre>
35:
36:
           cin >> arr[i];
37:
       }
38:
39:
       insertionsort(arr, n, 1);
40:
41:
       for(int i=0; i < n; i++)</pre>
42:
43:
           cout << arr[i] << " ";</pre>
44:
       }
45:
46:
47:
       return 0;
48: }
```