```
1: #include<iostream>
 2: #include<omp.h>
 3: using namespace std;
 4:
 5: void bubble(int arr[],int n)
 6: {
 7:
        for(int i=0;i<n;i++)</pre>
 8:
 9:
             int first=i%2;
             #pragma omp parallel for shared(arr,first)
10:
             for(int j=first;j<n-1;j++)</pre>
11:
12:
                 if(arr[j]>arr[j+1])
13:
14:
                 {
15:
                      swap(arr[j],arr[j+1]);
16:
17:
             }
18:
        }
19: }
20: void swap(int &a,int &b)
21: {
22:
        int test;
        test=a;
23:
24:
        a=b;
25:
        b=test;
26: }
27: int main()
28: {
29:
        int n;
30:
        cout<<"Enter the no of elements: ";</pre>
31:
        cin>>n;
32:
        int arr[n];
33:
        cout<<"Enter elements: ";</pre>
34:
        for(int i=0;i<n;i++)</pre>
35:
36:
             cin>>arr[i];
37:
38:
        bubble(arr,n);
39:
        cout<<"Sorted array: ";
40:
        for(int i=0;i<n;i++)</pre>
41:
             cout<<arr[i]<<" ";</pre>
42:
43:
44:
        return 0;
45: }
```