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```cpp
//OUTPUT :

#include <iostream>
#include <stdlib.h>
#include <omp.h>
using namespace std;

void bubble(int *, int);
void swap(int &, int &);

void bubble(int *a, int n) {
    for (int i = 0; i < n; i++) {
        int first = i % 2;

        #pragma omp parallel for shared(a, first)
        for (int j = first; j < n - 1; j += 2) {
            if (a[j] > a[j + 1]) {
                swap(a[j], a[j + 1]);
            }
        }
    }
}

void swap(int &a, int &b) {
    int test = a;
    a = b;
    b = test;
}

int main() {
    int *a, n;
    cout << "\nEnter total number of elements: ";
    cin >> n;
    a = new int[n];
    cout << "\nEnter elements: ";
    for (int i = 0; i < n; i++) {
        cin >> a[i];
    }

    bubble(a, n);

    cout << "\nSorted array is: ";
    for (int i = 0; i < n; i++) {
        cout << a[i] << endl;
    }

    return 0;
}
```

```
/*

OUTPUT :

Sample Input :

Enter total number of elements: 9
Enter elements: 5 3 1 9 8 2 4 7 6

Sample Output :

Sorted array is:
1
2
3
4
5
6
7
8
9


*/
```