

# Online C++ 14 Compiler IDE

Project Name: **NP-BrickSort**

```
1 // A C++ Program to implement Odd-Even / Brick Sort
2 #include <bits/stdc++.h>
3 using namespace std;
4
5 // A function to sort the algorithm using Odd Even sort
6 void oddEvenSort(int arr[], int n)
7 {
8     bool isSorted = false; // Initially array is unsorted
9
10    while (!isSorted) {
11        isSorted = true;
12
13        // Perform Bubble sort on odd indexed element
14        for (int i = 1; i <= n - 2; i = i + 2) {
15            if (arr[i] > arr[i + 1]) {
16                swap(arr[i], arr[i + 1]);
17                isSorted = false;
18            }
19        }
20
21        // Perform Bubble sort on even indexed element
22        for (int i = 0; i <= n - 2; i = i + 2) {
23            if (arr[i] > arr[i + 1]) {
24                swap(arr[i], arr[i + 1]);
25                isSorted = false;
26            }
27        }
28    }
29
30    return;
31 }
32
33 // A utility function to print an array of size n
34 void printArray(int arr[], int n)
35 {
36     for (int i = 0; i < n; i++)
37         cout << arr[i] << " ";
38     cout << "\n";
39 }
40
41 // Driver program to test above functions.
42 int main()
43 {
44     int arr[] = { 34, 3, 10, 0, 12, 11, 0, 2 };
```

```
44     int arr[] = { 34, 2, 10, -9, 13, 11, 9, 5};
45     int n = sizeof(arr) / sizeof(arr[0]);
46
47     oddEvenSort(arr, n);
48     printArray(arr, n);
49
50     return (0);
51 }
52
```

Execute Mode, Version, Inputs & Arguments

#### CommandLine Arguments

#### Stdin Inputs

#### Result

**CPU Time: 0.00 sec(s), Memory: 3476 kilobyte(s)**

**compiled and executed in 2.301 sec(s)**

-9 2 3 9 10 11 13 34

Note: Please check [our documentation](#), or [Youtube channel](#). for more details

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