

<https://course.acciojob.com/idle?question=85d55467-e92a-4b18-9cac-1341101a3b0b>

● EASY

● Max Score: 30 Points

Even Odd Sorting

Implement Odd-Even sort /Brick sort.

Input Format

The first line contains one integer 'N' denoting the number of elements.

The Second line contains 'N' space separated integers denoting the elements of the array.

Output Format

Print the array in sorted fashion.

Example 1

Input

```
6
7 6 8 5 4 9
```

Output

```
4 5 6 7 8 9
```

Explanation

Printed sorted array.

Example 2

Input

```
5
11 5 12 6 13
```

Output

```
5 6 11 12 13
```

Explanation

Printed sorted array.

Constraints

$0 \leq \text{nums.length} \leq 10^4$

$-10^9 \leq \text{nums}[i] \leq 10^9$

Topic Tags

- [Sorting](#)
- [Arrays](#)

My code

```
// in java
```

```
import java.util.*;
```

```
public class Main {
    static void oddEvenSort(int arr[], int n)
    {
        //Write your code here
    }
}
```

```
boolean isSorted = false; // Initially array is unsorted
```

```
while (!isSorted)
{
    isSorted = true;
    int temp = 0;

    // Perform Bubble sort on odd indexed element
    for (int i=1; i<=n-2; i=i+2)
    {
        if (arr[i] > arr[i+1])
        {
            temp = arr[i];
            arr[i] = arr[i+1];
            arr[i+1] = temp;
            isSorted = false;
        }
    }

    // Perform Bubble sort on even indexed element
    for (int i=0; i<=n-2; i=i+2)
    {
        if (arr[i] > arr[i+1])
        {
            temp = arr[i];
            arr[i] = arr[i+1];
            arr[i+1] = temp;
            isSorted = false;
        }
    }
}
for(int i=0; i<n; i++)
```

```
        System.out.print(arr[i]+" ");  
  
    }  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);  
        int n= sc.nextInt();  
        int[] array = new int[n];  
  
        for(int i=0; i<n; i++){  
            array[i]= sc.nextInt();  
        }  
        oddEvenSort(array,n);  
    }  
}
```