

Sort an array in linear time

One Array will be provided to you and you've to sort that array in time complexity $O(N)$. It is guaranteed that array will contain integers between 1 to 5 (inclusive).

Constraints:

$$1 \leq \text{Arr}[i] \leq 5$$

Complete the below function.

```
#include <bits/stdc++.h>
using namespace std;

void sortInLinear(int arr[], int size) {
    // Your code here.
}

signed main() {

    int n;
    cin >> n;
    int arr[n];
    for(auto &x:arr) cin >> x;
    sortInLinear(arr, n);
    for(auto &x:arr) cout << x << " ";

    return 0;
}

/*
Input:
10
4 1 3 5 2 3 4 5 4 2

Output:
1 2 2 3 3 4 4 4 5 5

*/
```