## Assignment 4 Shikha 2021UCS1531 8377936691

```
#include<iostream>
using namespace std;
int findMax(int arr[], int n){
   int max = arr[0];
           max = arr[i];
int freqentValue(int arr[], int n){
        if(max>freq) {
           freq = max;
           value = arr[i-1];
```

```
void countSort(int arr[], int n){
   int output[n];
       count[arr[i]]++;
   for(int i=n-1; i>=0; i--){
       output[count[arr[i]]-1] = arr[i];
      count[arr[i]]--;
      arr[i] = output[i];
void display(int arr[], int n) {
      cout<<arr[i]<<" ";
   cout<<endl;</pre>
```

```
countSort(arr, n);
    display(arr, n);
       median = n/2.0;
    int freq = freqentValue(arr, n);
   cout<<(freq-median);</pre>
#include<iostream>
using namespace std;
int findMax(int arr[], int n){
   int max = arr[0];
    return max;
int freqentValue(int arr[], int n){
        if(arr[i] == arr[i-1]){
        if(max>freq){
```

```
void countSort(int arr[], int n) {
   int output[n];
   for(int i=1; i<max+1; i++){
       output[count[arr[i]]-1] = arr[i];
      count[arr[i]]--;
       arr[i] = output[i];
void display(int arr[], int n) {
       cout<<arr[i]<<" ";
   cout<<endl;</pre>
```

```
int arr[] = {7, 4, 7, 2, 7, 1,1,1,1, 2, 5, 3, 6};
int n=sizeof(arr)/sizeof(arr[0]);

countSort(arr, n);
display(arr, n);

cout<<freqentValue(arr, n);

return 0;
}</pre>
```

## <u>Output</u>

Input array 1223456777

Ans 2.5