

Overall complexity is $O(n \log n)$ for sorting algorithm/technique

used bubblesort to sort array in ascending order

code snippet:

```
void bubblesort(int a[], int num) {  
    for (int i = num-1; i>=0; i--){  
        for (int j=0; j<1; j++){  
            if(a[j]>a[j+1]) {  
                int temp=a[j];  
                a[j]= a[j+1];  
                a[j+1]=temp;  
            }  
        }  
    }  
}
```

There is no time linear solution for the problem, because no algorithm is there to sort array in linear time .

Main file should invoke the array and arraysize in order for the output to be display correctly

```
while (a<=j){  
    if (a!=b){  
        arrayfind[c]=arr[a];  
        c++;  
        a++;  
        arrayfind[c]=arr[b];  
    }  
    else if (a==b){  
        arrayfind[a] = arr[a];  
    }  
}
```