

**THE UNIVERSITY OF DODOMA**

**COLLEGE OF INFORMATICS AND VIRTUAL EDUCATION**



**CP 213: DATA STRUCTURE AND ALGORITHM ANALYSIS**

**NAME: ANUARI IDDI ISSA**

**REG NO: T/UDOM/2020/00345**

**COURSE: BSc-SE**

**ASSIGNMENT**

02:

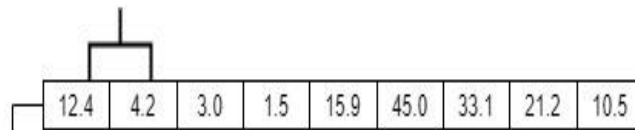
```
#include<iostream>

using namespace std;

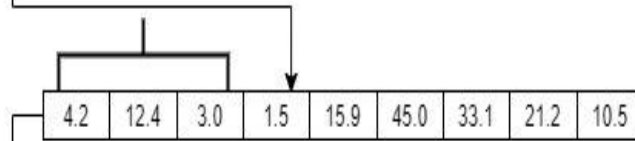
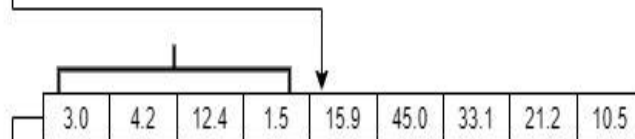
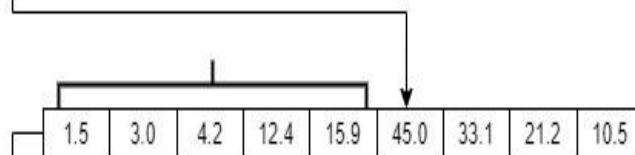
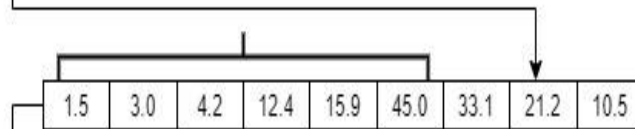
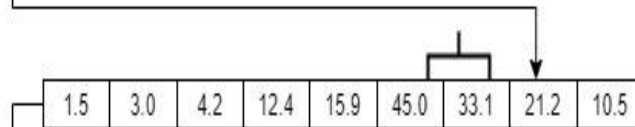
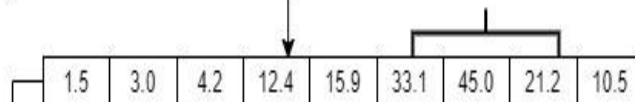
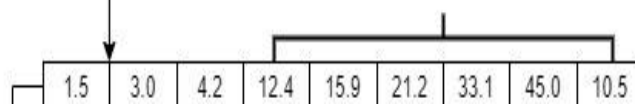
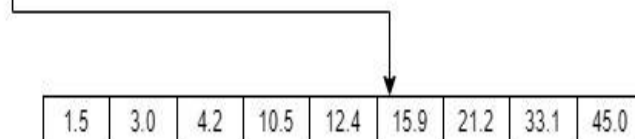
int main ()
{
    float myarray[9] = { 12.4,4.2,3.0,1.5,15.9,45.0,33.1,21.2,10.5};

    cout<<"\nInput list is \n";
    for(int i=0;i<9;i++)
    {
        cout <<myarray[i]<<"\t";
    }
    for(int k=1; k<9; k++)
    {
        float temp = myarray[k];
        int j= k-1;
        while(j>=0 && temp <= myarray[j])
        {
            myarray[j+1] = myarray[j];
            j = j-1;
        }
        myarray[j+1] = temp;
    }
    cout<<"\nSorted list is \n";
    for(int i=0;i<9;i++)
    {
        cout <<myarray[i]<<"\t";
    }
}
```

02



compare 2nd and 1st then sort in ascending order

compare 3rd with all element before it  
then sort in ascending ordercompare 4th with all element before it  
then sort in ascending ordercompare 5th with all element before it  
then sort in ascending ordercompare 6th with all element before it  
then sort in ascending ordercompare 7th with all element before it  
then sort in ascending ordercompare 8th with all element before it  
then sort in ascending ordercompare 9th with all element before it  
then sort in ascending order

Sorted Array

