**PROBLEM  1:**

Given a set of intervals, merge all the overlapping set of intervals.

For example,

Input

[5,15], [23,35], [55,80], [30,50]

Output

[5,15],[23,50],[55,80]

**SOLUTION:**

#include <iostream>

#include <string.h>

using namespace std;

int main()

{

   int n;

   cin>>n;

   int a[n],b[n];

   for(int i=0;i<n;i++)

   {

        cin>>a[i]>>b[i];

   }

   for(int i=0;i<n;i++)

   {

       for(int j=0;j<n;j++)

   {

       if(a[i]<a[j]&&a[j]<b[i])

       {

            b[i]=b[j];

            a[j]=b[j]=0;

       }

          }

}

       for(int i=0;i<n;i++)

   {

       if(a[i]!=0&&b[i]!=0)

        cout<<a[i]<<" "<<b[i]<<"\n";

   }

   return 0;

}