//Que- Given set of pairs like [1,10],[20,30].... so we need to find a pair to which the element x belongs to

#include<limits.h>

#include<iostream>

#include<set>

#include<algorithm>

using namespace std;

int main()

{

set< pair<int,int> > S;

S.insert({2,3});

S.insert({10,20});

S.insert({30,400});

S.insert({401,450});

int point=50;

auto it=S.upper\_bound({point,INT\_MAX});

if(it==S.begin())

{

cout<<"The given element is not lying in any interval..\n";

//return;

}

it--;

pair<int ,int> current=\*it;

if(current.first<=point && point <=current.second)

{

cout<<"yes it's present:"<<current.first<<" "<<current.second<<endl;

}

else

{

cout<<"The given point is not lying in any interval..\n";

}

return 0;

}