#include<iostream>

using namespace std;

struct link

{

int data;

link \* next;

};

///////////////////////////////////////////

class List

{

private:

int t;

link \*first;

public:

List()

{

t=0;

first=NULL;

}

///////////////////////////////////////////

void add(int d)

{

++t;

link \*ptr,\*temp;

if(first==NULL)

{

first=new link;

first->data=d;

first->next=NULL;

}

else

{

ptr=first;

temp=new link;

temp->data=d;

temp->next=NULL;

while(ptr->next!=NULL)

{

ptr=ptr->next;

}

ptr->next=temp;

}

}

///////////////////////////////////////////////

void display()

{

link \*temp;

temp= first;

cout<<"Values are: ";

while(temp!=NULL)

{

cout<<temp->data<<"\t";

temp=temp->next;

}

cout<<endl<<endl;

}

/////////////////////////////////////////////

void replace(int v)

{

link \*temp;

int p;

temp=first;

cout<<"Enter node where data you want to insert: ";

cin>>p;

if(p<t)

{

for(int i=1;i<p;i++)

{

temp=temp->next;

}

temp->data=v;

}

else

{

cout<<"You entered node which is not preasent"<<endl;

}

}

};

/////////////////////////////////////////////////////////

void main()

{

List l1,l2;

char ch;

int c,v;

do

{

cout<<"1.Enter data \n2.To copy \n3.To replace \n4.Display 1st linked list \n5.Display 2nd linked list\n6.Display both list"<<endl;

cin>>c;

switch(c)

{

case 1:

{

cout<<"Enter Number: ";

cin>>v;

l1.add(v);

cout<<"Data is stored"<<endl;

system("cls");

break;

}

case 2:

{

l2=l1;

cout<<"Data successfuly copy"<<endl;

break;

}

case 3:

{

cout<<"Enter number you want to overwrite:";

cin>>v;

l1.replace(v);

cout<<"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"<<endl;

break;

}

case 4:

{

cout<<"Linked list 1 data is"<<endl;

l1.display();

cout<<"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"<<endl;

break;

}

case 5:

{

cout<<"Linked list 2 data is"<<endl;

l2.display();

cout<<"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"<<endl;

break;

}

case 6:

{

cout<<"BOTH LISTS ARE ";

cout<<"\n\n";

l1.display();

cout<<"\n\n\n";

l2.display();

}

default:

{

cout<<"Invalid choice"<<endl;

break;

}

}

///////////////////////////////////////////////////////

cout<<"For again(y/n)";

cin>>ch;

}

while(ch=='y');

system("pause");

}