|  |
| --- |
| #include<iostream> |
|  |

|  |
| --- |
| #include<list> |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| using namespace std; |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| void display(list<int>&l> |
|  |

|  |
| --- |
| { |
|  |

|  |
| --- |
| list<int>::iterator itr; |
|  |

|  |
| --- |
| for(itr=l.begin();itr!=l.end();itr++) |
|  |

|  |
| --- |
| cout<<\*itr<<"\t"; |
|  |

|  |
| --- |
| cout<<endl; |
|  |

|  |
| --- |
| } |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| void int main() |
|  |

|  |
| --- |
| { |
|  |

|  |
| --- |
| list<int>l1; |
|  |

|  |
| --- |
| list<int>li2(5); |
|  |

|  |
| --- |
| int no,val; |
|  |

|  |
| --- |
| cout<<"Enter the no. of elements in list 1 : "; |
|  |

|  |
| --- |
| cin>>no; |
|  |

|  |
| --- |
| for(int i=0;i<no;i++) |
|  |

|  |
| --- |
| { |
|  |

|  |
| --- |
| cin>>val; |
|  |

|  |
| --- |
| l1.push\_back(val); |
|  |

|  |
| --- |
| } |
|  |

|  |
| --- |
| cout<<endl<<"List 1 : "<<endl; |
|  |

|  |
| --- |
| display(l1); |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| list<int>::iterator itr2; |
|  |

|  |
| --- |
| for(itr2=l2.begin();itr2!=l2.end();itr2++); |
|  |

|  |
| --- |
| \*itr2=rand()/100; |
|  |

|  |
| --- |
| cout<<"List 2 : "<<endl; |
|  |

|  |
| --- |
| display(l2); |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| list<int>lA,lB; |
|  |

|  |
| --- |
| lA=l1; |
|  |

|  |
| --- |
| lB=l2; |
|  |

|  |
| --- |
| l1.merge(l2); |
|  |

|  |
| --- |
| cout<<endl<<"Merged unsorted list : "<<endl; |
|  |

|  |
| --- |
| display(l1); |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| lA.sort(); |
|  |

|  |
| --- |
| lB.sort(); |
|  |

|  |
| --- |
| lA.merge(lB); |
|  |

|  |
| --- |
| cout<<endl<<"Merged sorted list : "<<endl; |
|  |

|  |
| --- |
| display(lA); |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| lA.reverse(); |
|  |

|  |
| --- |
| cout<<"Reversed merged sorted list : "<<endl; |
|  |

|  |
| --- |
| display(lA); |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| return 0; |
|  |

}