Main.cpp

#include <iostream>

#include <list>

using namespace std;

static void display(list<int> l) {

for (auto p = l.begin(); p != l.end(); p++) {

cout << \*p << " ";

}

cout << endl;

}

static void reverse\_list(list<int> &l) {

list<int>::iterator p1 = l.begin();

list<int>::iterator p2 = l.end();

p2--;

while (p1 != p2)

{

swap(\*p1, \*p2);

p1++;

if (p1 == p2) {

break;

}

p2--;

}

}

int main()

{

//Fill in the list with 2, 4, 6, 8, 10, and 12

list<int> l1 {2, 4, 6, 8, 10, 12};

//Display the list before reverse

cout << "Before reverse: " << endl;

display(l1);

// Reverse the list use two iterators and a swap function

reverse\_list(l1);

//Display the list

cout << "After reverse: " << endl;

display(l1);

//Fill in the list with 2, 4, 6, 8, 10, 12, an 14

list<int> l2 {2, 4, 6, 8, 10, 12, 14};

//Display the list before reverse

cout << "Before reverse: " << endl;

display(l2);

//Reverse the list use two iterators and a swap function

reverse\_list(l2);

//Display the list

cout << "After reverse: " << endl;

display(l2);

return 0;

}

A screenshot of a computer

Description automatically generated

Demonstrated at 11:16 am on 11/16/2021