// CPP program to show the implementation of List

#include <iostream>

#include <iterator>

#include <list>

using namespace std;

// function for printing the elements in a list

void showlist(list<int> g)

{

    list<int>::iterator it;

    for (it = g.begin(); it != g.end(); ++it)

        cout << '\t' << \*it;

    cout << '\n';

}

// Driver Code

int main()

{

    list<int> gqlist1, gqlist2;

    for (int i = 0; i < 10; ++i) {

        gqlist1.push\_back(i \* 2);

        gqlist2.push\_front(i \* 3);

    }

    cout << "\nList 1 (gqlist1) is : ";

    showlist(gqlist1);

    cout << "\nList 2 (gqlist2) is : ";

    showlist(gqlist2);

    cout << "\ngqlist1.front() : " << gqlist1.front();

    cout << "\ngqlist1.back() : " << gqlist1.back();

    cout << "\ngqlist1.pop\_front() : ";

    gqlist1.pop\_front();

    showlist(gqlist1);

    cout << "\ngqlist2.pop\_back() : ";

    gqlist2.pop\_back();

    showlist(gqlist2);

    cout << "\ngqlist1.reverse() : ";

    gqlist1.reverse();

    showlist(gqlist1);

    cout << "\ngqlist2.sort(): ";

    gqlist2.sort();

    showlist(gqlist2);

    return 0;

}