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/*This programme shows how lists can be used in a programme*/
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#include <iostream>
#include <list> // To enable the code to use "list" from STL
#include <vector>
using namespace std;

void main() {

    list<int> data(20, 1); // create list of 20 elements all filled with integer ones

    data.insert(++data.begin(), 42); // inserts "42" in the second location

    data.sort(); // sort ascending

    data.remove(42); // removes elements "42"

    data.unique(); // remove duplicate elements

    list<int> newdata{ 4, 5, 6 };
    data.splice(++data.begin(), newdata); // transfers "newdata" elements to "data" starting
    at the second element

    //cout << data[2] << endl; // Why doesn't this line work?

    data.clear(); // clear all data and set the list to 0 length

    system("pause");
};
```