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/* The following code example is taken from the book
 * "The C++ Standard Library - A Tutorial and Reference"
 * by Nicolai M. Josuttis, Addison-Wesley, 1999
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 * warranty, and with no claim as to its suitability for any purpose.
#include "algostuff.hpp"
using namespace std;
bool bothEvenOrOdd (int elem1, int elem2)
    return elem1 % 2 == elem2 % 2;
int main()
    vector<int> coll1;
    list <int> coll2;
    INSERT ELEMENTS (coll1, 1, 7);
    INSERT ELEMENTS (coll2, 3, 9);
    PRINT_ELEMENTS(coll1, "coll1: ");
PRINT_ELEMENTS(coll2, "coll2: ");
    // check whether both collections are equal
    if (equal (coll1.begin(), coll1.end(), // first range
                coll2.begin()))
                                                 // second range
        cout \ll "coll1 == coll2" \ll endl;
    }
    else {
        cout << "coll1 != coll2" << endl;
    // check for corresponding even and odd elements
    if (equal (coll1.begin(), coll1.end(),
                                                // first range
                                                 // second range
                coll2.begin(),
                bothEvenOrOdd)) {
                                                 // comparison criterion
        cout << "even and odd elements correspond" << endl;</pre>
    else {
        cout << "even and odd elements do not correspond" << endl:
}
```