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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;
int main()
    vector<int> coll1;
    vector(int) coll2;
    INSERT ELEMENTS (coll1, 1, 9);
    INSERT ELEMENTS (coll2, 1, 9);
   PRINT_ELEMENTS (coll1, "coll1: ");
PRINT_ELEMENTS (coll2, "coll2: ");
    cout << endl;
    // move all even elements to the front
    vector(int)::iterator pos1, pos2;
    pos1 = partition(coll1.begin(), coll1.end(),
                                                                          // range
                          not1(bind2nd(modulus<int>(), 2)));
                                                                          // criterion
    pos2 = stable_partition(col12.begin(), col12.end(),
                                                                           // range
                                   not1(bind2nd(modulus<int>(),2))); // crit.
    // print collections and first odd element
   PRINT_ELEMENTS(coll1, "coll1: ");
cout << "first odd element: " << *pos1 << endl;
PRINT_ELEMENTS(coll2, "coll2: ");
cout << "first odd element: " << *pos2 << endl;
```