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/* The following code example is taken from the book
 * "The C++ Standard Library - A Tutorial and Reference, 2nd Edition"
 * by Nicolai M. Josuttis, Addison-Wesley, 2012
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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) coll;
    int num;
    INSERT ELEMENTS (col1, 1, 9);
    PRINT_ELEMENTS(coll, "coll: ");
    // count elements with value 4
    num = count (coll.cbegin(), coll.cend(),
                                                         // range
                                                         // value
                    4);
    cout << "number of elements equal to 4:
                                                           << num << endl;</pre>
    // count elements with even value
    num = count_if (coll.cbegin(), coll.cend(),
                                                         // range
                       [](int elem){
                                                         // criterion
                            return elem%2==0:
    cout << "number of elements with even value: " << num << endl;</pre>
    // count elements that are greater than value 4
    num = count if (coll.cbegin(), coll.cend(), // range
                                                         // criterion
                       [](int elem){
                            return elem>4;
    cout << "number of elements greater than 4: " << num << endl;</pre>
}
```