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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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 */
#include "alghostuff.hpp"
using namespace std;

int main()
{
    list<int> coll;

    INSERT_ELEMENTS(coll,1,9);
    INSERT_ELEMENTS(coll,1,9);
    coll.sort ();
    PRINT_ELEMENTS(coll);

    // print first and last position 5 could get inserted
    pair<list<int>::const_iterator,list<int>::const_iterator> range;
    range = equal_range (coll.cbegin(), coll.cend(),
                        5);

    cout << "5 could get position "
         << distance(coll.cbegin(),range.first) + 1
         << " up to "
         << distance(coll.cbegin(),range.second) + 1
         << " without breaking the sorting" << endl;
}

```