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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 <algorithm>
#include <deque>
#include <iostream>
using namespace std;

int main()
{
    deque<int> coll = { 1, 3, 19, 5, 13, 7, 11, 2, 17 };

    int x = 5;
    int y = 12;
    auto pos = find_if (coll.cbegin(), coll.cend(), // range
                        [=](int i) {                // search criterion
                            return i > x && i < y;
                        });
    cout << "first elem >5 and <12: " << *pos << endl;
}

```