```
/* 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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 */
#include <iostream>
#include <algorithm>
#include <functional>
#include <string>
#include <cctype>
#include "compose22.hpp"
using namespace std;
int main()
     string s("Internationalization");
     string sub("Nation");
     // search substring case insensitive
     string::iterator pos;
     pos = search (s. begin(), s. end(),
                                                           // string to search in
                       sub. begin(), sub. end(), // substring to search compose_f_gx_hy(equal_to<int>(), // compar. criterion
                                           ptr_fun(::toupper),
                                           ptr_fun(::toupper)));
     if (pos != s. end()) {
          cout << "\"" << sub << "\" is part of \"" << s << "\""
                << endl;
     }
}
```