```
/* The following code example is taken from the book
 * "The C++ Standard Library - A Tutorial and Reference"
 * by Nicolai M. Josuttis, Addison-Wesley, 1999
 * (C) Copyright Nicolai M. Josuttis 1999.
 * Permission to copy, use, modify, sell and distribute this software
 * is granted provided this copyright notice appears in all copies.
* This software is provided "as is" without express or implied
 * warranty, and with no claim as to its suitability for any purpose.
 */
#include <string>
#include <iostream>
#include <algorithm>
using namespace std;
bool nocase compare (char c1, char c2)
    return toupper(c1) == toupper(c2);
int main()
    string sl("This is a string");
    string s2("STRING");
    // compare case insensitive
                                                // ensure same sizes
// first source string
// second source string
// comparison criterion
    if (s1. size() == s2. size() \&\&
         equal (sl. begin(), sl. end(),
                  s2. begin(),
                  nocase compare)) {
         cout << "the strings are equal" << endl;
    else {
         cout << "the strings are not equal" << endl;</pre>
    // search case insensitive
    string::iterator pos;
    pos = search (s1.begin(), s1.end(),  // source string in which to search
                                                // substring to search
// comparison criterion
                     s2. begin(), s2. end(),
                     nocase_compare);
    if (pos == s1. end()) {
         cout << "s2 is not a substring of s1" << endl;
    else {
         cout << '"' << s2 << "\" is a substring of \"" << s1 << "\" (at index " << pos - s1.begin() << ")"
               << end1:
}
```