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relational operators (string)

<string>

```
C++98 | C++14
       bool operator== (const string& lhs, const string& rhs);
       bool operator== (const char*
                                      lhs, const string& rhs);
       bool operator== (const string& lhs, const char*
       bool operator!= (const string& lhs, const string& rhs);
                                      lhs, const string& rhs);
      bool operator!= (const char*
       bool operator!= (const string& lhs, const char*
       bool operator< (const string& lhs, const string& rhs);</pre>
  (3)
       bool operator<
                       (const char*
                                     lhs, const string& rhs);
       bool operator< (const string& lhs, const char*
       bool operator<= (const string& lhs, const string& rhs);</pre>
      bool operator<= (const char*
                                     lhs, const string& rhs);
       bool operator<= (const string& lhs, const char*</pre>
       bool operator> (const string& lhs, const string& rhs);
      bool operator> (const char*
                                     lhs, const string& rhs);
       bool operator> (const string& lhs, const char*
                                                         rhs);
       bool operator>= (const string& lhs, const string& rhs);
       bool operator>= (const char*
                                     lhs, const string& rhs);
       bool operator>= (const string& lhs, const char*
```

Relational operators for string

Performs the appropriate comparison operation between the string objects *lhs* and *rhs*.

The functions use string::compare for the comparison.

These operators are overloaded in header <string>.

Parameters

Arguments to the left- and right-hand side of the operator, respectively. If of type char*, it shall point to a null-terminated character sequence.

Example

```
1 // string comparisons
 2 #include <iostream>
 3 #include <vector>
5 int main ()
6 {
     std::string foo = "alpha";
     std::string bar = "beta";
     if (foo==bar) std::cout << "foo and bar are equal\n"; if (foo!=bar) std::cout << "foo and bar are not equal\n";
10
11
     if (foo< bar) std::cout << "foo is less than bar\n";</pre>
12
     if (foo> bar) std::cout << "foo is greater than bar\n";</pre>
13
     if (foo<=bar) std::cout << "foo is less than or equal to bar\n";</pre>
14
15
     if (foo>=bar) std::cout << "foo is greater than or equal to bar\n";</pre>
16
17
     return 0;
18 }
```

Output:

```
foo and bar are not equal
foo is less than bar
foo is less than or equal to bar
```

Return Value

true if the condition holds, and false otherwise.

Complexity

Unspecified, but generally up to linear in both Ihs and rhs's lengths.

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C++

class templates: basic string char_traits classes: string u16string u32string wstring functions: stod stof stoi stol stold stoll stoul stoull to_string to_wstring

```
string
strina::strina
string::~string
  member functions:
  string::append
  string::assign
  string::at
  string::back
  string::begin
  string::capacity
  strina::cbeain
  string::cend
  string::clear
  string::compare
   string::copy
   string::crbegin
```

string::crend string::c_str string::data string::empty string::end string::erase string::find string::find_first_not_of string::find_first_of string::find_last_not_of string::find_last_of string::front string::get_allocator string::insert string::length string::max_size string::operator+= string::operator= string::operator[] string::pop_back string::push_back string::rbegin string::rend string::replace string::reserve string::resize string::rfind string::shrink_to_fit string::size string::substr string::swap member constants: string::npos non-member overloads: getline (string) operator+ (string) operator<< (string) operator>> (string) relational operators (string) swap (string)

Iterator validity

No changes.

Data races

Both objects, *lhs* and *rhs*, are accessed.

Exception safety

C++98 C++14

If an argument of type char* does not point to null-terminated character sequence, it causes *undefined behavior*. Otherwise, if an exception is thrown, there are no changes in the string (strong guarantee).

See also

string::compare	Compare strings (public member function)
string::find	Find content in string (public member function)
string::operator=	String assignment (public member function)
string::swap	Swap string values (public member function)



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