

```
1: // $Id: testxless.cpp,v 1.2 2019-02-07 13:26:15-08 - - $
2:
3: // Example of how to use xless object on a pair of strings.
4:
5: #include <iomanip>
6: #include <iostream>
7: #include <string>
8:
9: using namespace std;
10:
11: template <typename Type>
12: struct xless {
13:     bool operator() (const Type &left, const Type &right) const {
14:         return left < right;
15:     }
16: };
17:
18: template <typename Type, class Less=xless<Type>>
19: void compare (const Type &left, const Type &right) {
20:     Less less;
21:     cout << boolalpha;
22:     bool is_less = less (left, right);
23:     bool is_greater = less (right, left);
24:     bool is_equal = not is_less and not is_greater;
25:     cout << left << " < " << right << " = " << is_less << endl;
26:     cout << left << " == " << right << " = " << is_equal << endl;
27:     cout << left << " > " << right << " = " << is_greater << endl;
28:     cout << endl;
29: }
30:
31: int main () {
32:     compare (string ("hello"), string ("world"));
33:     compare (string ("qwert"), string ("qwert"));
34:     compare (string ("zxcvb"), string ("asdfg"));
35:     return 0;
36: }
37:
38: //TEST// testxless >testxless.out 2>&1
39: //TEST// mkpspdf testxless.ps testxless.cpp* testxless.out
40:
```

```
1: @@@@ mkc: starting testxless.cpp
2: checksource testxless.cpp
3: ident testxless.cpp
4: testxless.cpp:
5:      $Id: testxless.cpp,v 1.2 2019-02-07 13:26:15-08 - - $
6: cpplint.py.perl testxless.cpp
7: Done processing testxless.cpp
8: g++ -g -O0 -Wall -Wextra -Wpedantic -Wshadow -fdiagnostics-color=never -
std=gnu++17 -Wold-style-cast testxless.cpp -o testxless -lm
9: rm -f testxless.o
10: @@@@ mkc: finished testxless.cpp
```

```
1: hello < world = true
2: hello == world = false
3: hello > world = false
4:
5: qwert < qwert = false
6: qwert == qwert = true
7: qwert > qwert = false
8:
9: zxcvb < asdfg = false
10: zxcvb == asdfg = false
11: zxcvb > asdfg = true
12:
```