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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 "algostuff.hpp"
using namespace std;
bool lessLength (const string& s1, const string& s2)
     return s1.length() < s2.length();
int main()
    // fill two collections with the same elements vector(string) coll1 = { "1xxx", "2x", "3x", "4x", "5xx", "6xxxx", "7xx", "8xxx", "9xx", "10xxx", "11", "12", "13", "14xx", "15", "16", "17" };
     vector <string > coll2(coll1);
     PRINT ELEMENTS (coll1, "on entry:\n");
     // sort (according to the length of the strings)
     sort (coll1.begin(), coll1.end(),
                                                               // range
                                                               // criterion
             lessLength);
     stable sort (coll2.begin(), coll2.end(),
                                                               // range
                      lessLength);
                                                               // criterion
     \label{lem:print_elements} $$ PRINT_ELEMENTS(coll1, "\nwith sort():\n"); $$ PRINT_ELEMENTS(coll2, "\nwith stable\_sort():\n"); $$
```