```
/* 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 <string>
#include <iostream>
#include <algorithm>
using namespace std;
int main()
    // create constant string
    const string hello ("Hello, how are you?");
    // initialize string s with all characters of string hello
    string s(hello.begin(), hello.end());
    // iterate through all of the characters
    string::iterator pos;
    for (pos = s. begin(); pos != s. end(); ++pos) {
        cout << *pos;
    cout << endl;
    // reverse the order of all characters inside the string
    reverse (s. begin(), s. end());
    cout << "reverse:
                               " << s << endl;
    // sort all characters inside the string
    sort (s.begin(), s.end());
cout << "ordered: " << s << endl;</pre>
    /* remove adjacent duplicates
     * - unique() reorders and returns new end
     * - erase() shrinks accordingly
    s. erase (unique(s. begin(),
                      s. end()),
              s.end());
    cout << "no duplicates: " << s << endl;</pre>
}
```