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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 <string>          // for strings
#include <iostream>        // for I/O
#include <fstream>         // for file I/O
#include <iomanip>          // for setw()
#include <cstdlib>          // for exit()
using namespace std;

// forward declarations
void writeCharsetToFile (const string& filename);
void outputFile (const string& filename);

int main ()
{
    writeCharsetToFile("charset.out");
    outputFile("charset.out");
}

void writeCharsetToFile (const string& filename)
{
    // open output file
    ofstream file(filename);

    // file opened?
    if (! file) {
        // NO, abort program
        cerr << "can't open output file \"" << filename << "\""
              << endl;
        exit(EXIT_FAILURE);
    }

    // write character set
    for (int i=32; i<256; ++i) {
        file << "value: " << setw(3) << i << " "
              << "char: " << static_cast<char>(i) << endl;
    }
} // closes file automatically

void outputFile (const string& filename)
{
    // open input file
    ifstream file(filename);

    // file opened?
    if (! file) {
        // NO, abort program

```

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        cerr << "can't open input file \"" << filename << "\""  
            << endl;  
        exit(EXIT_FAILURE);  
    }  
  
    // copy file contents to cout  
    char c;  
    while (file.get(c)) {  
        cout.put(c);  
    }  
  
} // closes file automatically
```