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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 <iterator>
#include <algorithm>
#include <fstream>
#include <iostream>
int countLines (std::istream& in)
    return std::count(std::istreambuf iterator(char)(in),
                        std::istreambuf_iterator<char>(),
                        '\n');
int main (int argc, char* argv[])
    int count;
    if (argc == 1) {
       // no argument => count lines of standard input
       count = countLines(std::cin);
    else {
       // count number of lines of all files passed as argument
       std::ifstream in;
       count = 0;
       for (int i=1; i < argc; ++i) {
            std::ifstream file(argv[i]);
            if (!file) {
                std::cerr << "failed to open " << argv[i] << "\n";
            else {
                count += countLines(file);
       }
    std::cout << count << std::endl;</pre>
```