```
/* 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 <iostream>
#include <fstream>
#include <memory>
using namespace std;
void redirect(ostream&);
int main()
    cout << "the first row" << endl;</pre>
    redirect (cout);
    cout << "the last row" << endl;</pre>
void redirect (ostream& strm)
    // save output buffer of the stream
    // - use unique pointer with deleter that ensures to restore
          the original output buffer at the end of the function
    auto del = [\&](streambuf* p) {
                     strm. rdbuf (p);
    unique ptr\streambuf, decltype(del) \rangle origBuffer(strm.rdbuf(), del);
    // redirect ouput into the file redirect.txt
    ofstream file ("redirect. txt");
    strm.rdbuf (file.rdbuf());
    file << "one row for the file" << endl; strm << "one row for the stream" << endl;
} // closes file AND its buffer automatically
```