```cpp
/* 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 <iostream>
#include <fstream>
using namespace std;

void redirect(ostream&);

int main()
{
    cout << "the first row" << endl;

    redirect(cout);

    cout << "the last row" << endl;
}

void redirect (ostream& strm)
{
    ofstream file("redirect.txt");

    // save output buffer of the stream
    streambuf* strm_buffer = strm.rdbuf();

    // redirect ouput into the file
    strm.rdbuf (file.rdbuf());

    file << "one row for the file" << endl;
    strm << "one row for the stream" << endl;

    // restore old output buffer
    strm.rdbuf (strm_buffer);

}    // closes file AND its buffer automatically
```