Computer Programming II — Homework Assignment #4

An identifier is a series of characters consisting of letters, digits and underscores (\_) that does not begin with a digit. Write an object-oriented program that reads in a legal C**++** program and identifies all non-keyword identifiers. For the sake of simplicity, we suppose that all comments in the C**++** program are *single-line comments* which begin with //. Moreover, we also assume that the C**++** program is syntactically correct. Specifically, please implement the member functions of classes Identifier, SourceLineand string, defined in Identifier.h, SourceLine.h and string.h, respectively.

For example,

if your program reads in test1.cpp, the output file should be the same as identifiers1.txt;

if your program reads in test2.cpp, the output file should be the same as identifiers2.txt;

if your program reads in test3.cpp, the output file should be the same as identifiers3.txt;

if your program reads in test4.cpp, the output file should be the same as identifiers4.txt;

if your program reads in test5.cpp, the output file should be the same as identifiers5.txt.