Task: Add cyclomatic complexity counter to each language counter

Cyclomatic Complexity measures the number of linearly independent paths through a program. It is measured by function or method, and a method has been completed for the C/C++ and Java counters. This task is to add cyclomatic complexity counting for all of the remaining languages where it is relevant (For some language counters, cyclomatic complexity has no meaning – such as CSS). The following are some references for cyclomatic complexity:

<http://en.wikipedia.org/wiki/Cyclomatic_complexity>

<http://www.aivosto.com/project/help/pm-complexity.html>

<http://www.literateprogramming.com/mccabe.pdf>

UCC version 2011.10 has been updated to process cyclomatic complexity for C/C++ and Java with the following files modified:

cc\_main.cpp

cc\_main.h

CCCounter.cpp

CCJavaCsCounter.cpp

CCJavaCsCounter.h

CCodeCounter.cpp

CCodeCounter.h

CJavaCounter.cpp

MainObject.cpp

MainObject.h

The current implementation requires the user to add –cyclomatic as a command line argument. Then the results are reported in “outfile\_cyclomatic\_cplx.csv” or “outfile\_cyclomatic\_cplx.txt”. Each language counter will likely have a different way of determining the beginning of each function/method and decision points in the code. This is the major effort of the task.