

## CSC 306 WEEK 5 TEST STUDY GUIDE

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In addition to all the topics on the Week 3 quiz study guide, the midterm will cover classes, enumeration types, maps, vectors, and sets, to the extent that they were used in the lexical analysis project. You should know how to use constructor initialization lists to initialize class member variables.

The background material for language implementation issues related to lexical and syntax analysis will be on the test. Specifically you need to know what a lexical analyzer is and how to go about writing one; you need to know about context free grammars and the EBNF notation, need to know definitions of terms such as token, terminal symbol, non-terminal symbol, production etc. You should know how a recursive descent parser is structured, you should know what a *start symbol* for a non terminal or for the right hand side of a production is, and you should be able to state the precondition and postcondition for parsing procedures for a nonterminal in a recursive descent parser.

Finally, you should know how to write a parsing procedure for a nonterminal when you are given the productions for that nonterminal.