

CS5363 Midterm Exam - outline of test questions

1. (14pts) Construct regular expressions for given regular languages.
2. (16pts) Write context-free grammars for given context-free languages.
3. (20pts) Build a predictive top-down parser for a given language; draw the parse tree for a given input.
4. (14pts) Given a context-free grammar, compute all the state transitions to build an LR(1) parser.
5. (20pts) Suppose we have a context-free grammar, extend it with translation schemes.
6. (16pts) For a given Pascal program, draw the set of activation records that are on the runtime stack.