Test 3 Review

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CSCI 340: Computational Models

In general, homework problems are representative of what will be on the test. This is just a high-level overview of what's been covered. If you are unsure if something will be on the test, just ask!

Questions asked on the exam may be: True/False, Multiple Choice, Short Answer, or otherwise similar to the nature of homework problems assigned

· Grammatical Format

- Regular grammars
- Chomsky Normal Form
- Other definitions and terminology

· Pushdown Automata

- Examples and definitions
- Example languages and machines
- Nondeterminism
- Creating a PDA that accepts the language generated by a given CFG

· Non-Context-Free Languages

- Basic properties of non-context-free languages
- Concept of pumping lemma for CFLs (decomposition, testing, w = uvxyz)

· Context-Free Languages

- Closure properties
- Decidability definitions, terminology, and methodology
- Which questions are decidable

• Turing Machines (Depends on how far we go on Thursday)

- Definitions, terminology
- Execution train or trace
- Relationship to regular languages
- ACCEPT, REJECT, LOOP
- Insert, Delete subprograms