HW4

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18 September ,2017

- 1. Define a context-free grammar for the language $L=\{0^n1^m0^m1^n\}$ Where S is the start production $S\to 0S1|1A0|\epsilon$ $A\to 1A0|\epsilon$
- 2. Define a context-free grammar for the language $L=\{a^nb^m:n\leq 3m\}$ Where S is the start production $S\to Bb|\epsilon$ $B\to Cb|\epsilon$ $C\to Db|\epsilon$ $D\to Db|aS|\epsilon$
 - 3. The truth value of a logical expression is defined recursively as: