

Assignment 11

Automata & Theory of Computation

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1. Find an s-grammar for $L = (aaa^*bb^*a)$.

$$S \rightarrow aS \mid bS \mid \lambda$$

2. Show that the following grammar is ambiguous:

$$S \rightarrow A_1A_2,$$

$$A_1 \rightarrow aaA_1 \mid \lambda,$$

$$A_2 \rightarrow aaaaA_2 \mid \lambda.$$

$$w = aaaaa$$

