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Exercises for Section 4.6

Exercise 4.6.5: Show that the following grammar:

$$S \rightarrow A a A b \mid B b B a$$

$$A \rightarrow \varepsilon$$

$$B \rightarrow \varepsilon$$

is LL(1) but not SLR(1).

Exercise 4.6.6: Show that the following grammar:

$$S \rightarrow S A \mid A$$

$$A \rightarrow a$$

is SLR(1) but not LL(1).

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Exercises for Section 4.7

Exercise 4.7.1: Construct the

a) canonical LR, and

b) LALR

sets of items for the grammar $S \rightarrow S S + \mid S S * \mid a$ of Exercise 4.2.1.

Exercise 4.7.2: Repeat Exercise 4.7.1 for each of the (augmented) grammars of Exercise 4.2.2(a) and (c).