

1 Bottom-up parsing

1.1 LR(0) automaton

There are shift/reduce conflicts in I_{10} and I_{12} since we don't know if we should reduce \mathbf{aB} to A and EB to D or look for \mathbf{b} and shift it. This is because we have no lookahead. If we had a LR(1) automaton the shift/reduce conflicts would be resolved.

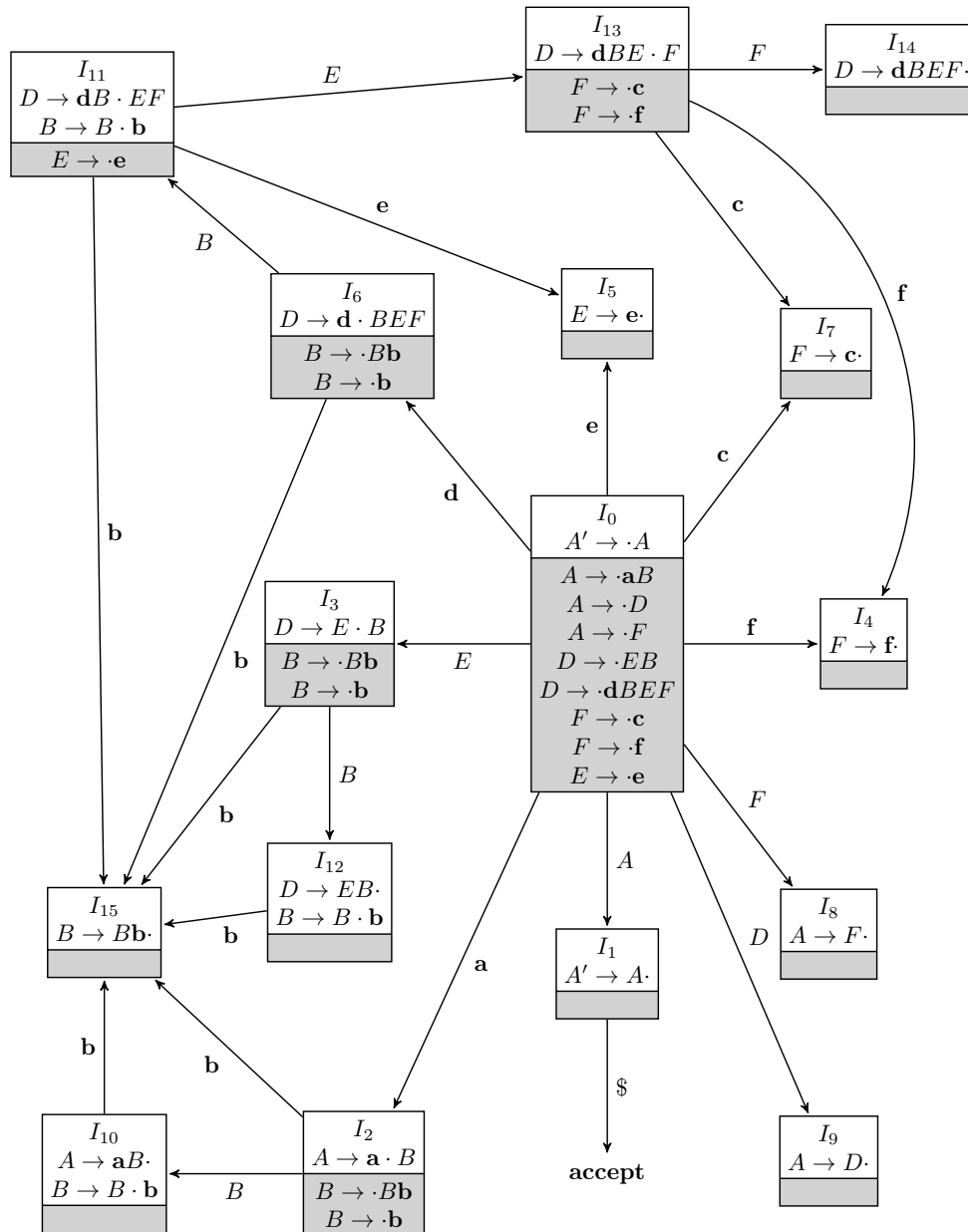


Figure 1: The LR(0) automaton

1.2 SLR

The grammar is not SLR(1). It is ambiguous in state I_{10} and I_{12} . Because it has a shift/reduce conflict.