

1. Create the start state (state 0) of the LR(1) machine for the following grammar.

$S \rightarrow P$

$P \rightarrow A$

$A \rightarrow A B$

$A \rightarrow B$

$B \rightarrow id = E ;$

$E \rightarrow E | T$

$E \rightarrow T$

$T \rightarrow T \& F$

$T \rightarrow F$

$F \rightarrow id$

$F \rightarrow true$

$F \rightarrow false$