In the following questions, consider the following grammar:

\[
\begin{align*}
S_0 & \rightarrow E \\
E & \rightarrow \text{id} \\
E & \rightarrow \text{id} \ (E) \\
E & \rightarrow E + \text{id}
\end{align*}
\]

1. Build the LR(0) DFA (i.e., states and goto edges) for the following grammar:

2. Is this grammar LR(0)?

3. Build the SLR parsing table for the grammar.