Optional Extra Problem for Assignment 2

For the grammar below, determine the Nullable, Starter, and Follow sets for the grammar nonterminals. Next, identify all choice points in the grammar and for each choice point determine the Predict sets. Then answer whether the grammar meets the LL(1) condition. In this grammar, capital letters represent nonterminals, lowercase letters and $ represent terminals. Write your solution on this handout, and be sure to add your name at the top.

\[
\begin{align*}
S &::= A \$
A &::= a A x \mid B \\
B &::= b B x \mid D \\
D &::= d D x \mid f
\end{align*}
\]