

CS 442/542 Spring 2021 Quiz 9

Name: \_\_\_\_\_

1. Use the grammar shown below to create the start state and all the states one transition away from the start state in the Canonical Collection (I called this the LR1 machine). You probably want to review the second lecture on LR1 parsing before you do this quiz. You can have until **Saturday** to submit your answer.

$S \rightarrow E$

$E \rightarrow E + T$

$E \rightarrow T$

$T \rightarrow T * F$

$T \rightarrow F$

$F \rightarrow ( E )$

$F \rightarrow id$