Homework Day #36
COMP 2230
Spring 2024
Prof. Stucki

1) Construct a Turing Machine with no more than three states that accepts the language a(a+b)*.

2) Construct a Turing Machine over $\Sigma = \{a, b\}$ that begins in state q0 with the read/write head at the leftmost character on the tape and makes a copy of the input string. In other words if the initial configuration is $q_0 w$ then the machine halts with in the configuration $q_0 ww$, where w is an arbitrary string from Σ^*.

3) Construct a Turing Machine over $\Sigma = \{a, b\}$ that halts with a string on the tape that is the reverse of the string that was on the tape when it began.