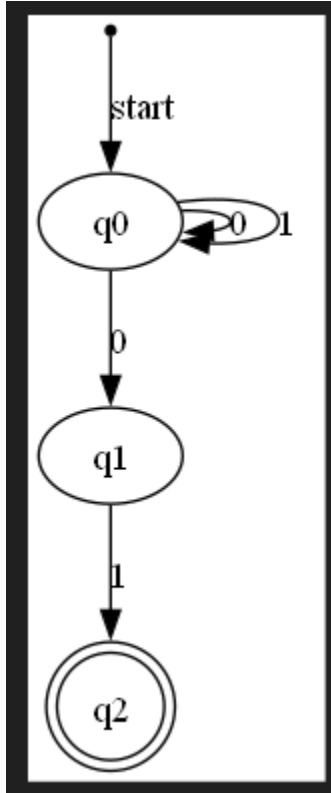


My program has two functions: `generate_transition_diagram` and `nfa_to_dfa`. The first function takes in an nfa or dfa and generates a diagram which gets saved in `example_graph.png`. For NFAs or DFAs involving states which are sets, these states must be of type `frozenset` (not `set`). The second function takes an nfa and transforms it into a dfa. The call to generate a diagram for the nfa turned dfa is commented out at the bottom of my code.

Graph created from nfa input:



Output from NFA to DFA:

DFA accepting states:

'q2', 'q0'

DFA states:

('q0', 'q1')

\*\*('q2', 'q0')

-->('q0')

DFA Transitions:

('q0') --> '1': ('q0'), '0': ('q0', 'q1')

('q0', 'q1') --> '1': ('q2', 'q0'), '0': ('q0', 'q1')

('q2', 'q0') --> '1': ('q0'), '0': ('q0', 'q1')

Graph of DFA (from nfa):

