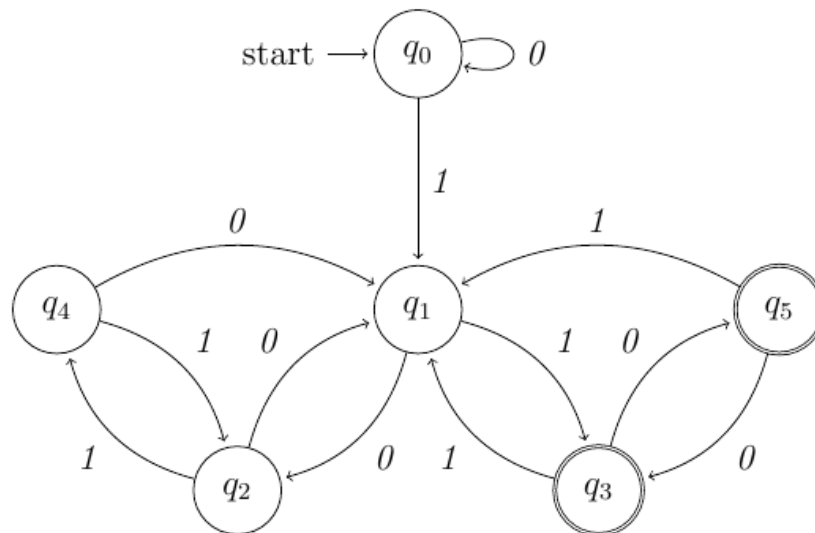


Exercise 7 – Properties of Regular Languages

A software developer tasked with drawing an automaton to validate binary strings that follow a specific pattern came up with the following DFA:



His colleagues, however, feel that this solution is not the most efficient and that a smaller DFA could be devised to do the same job.

You are tasked with proving that there is a smaller alternative. Minimize the DFA above, showing the equivalent states table and draw the minimum DFA equivalent to the one above.