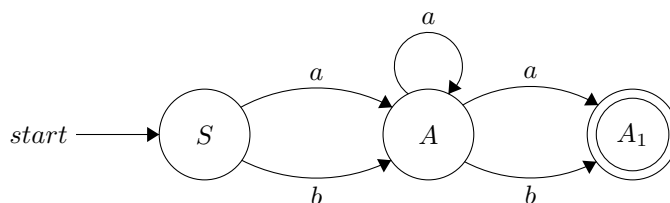


Problem 1

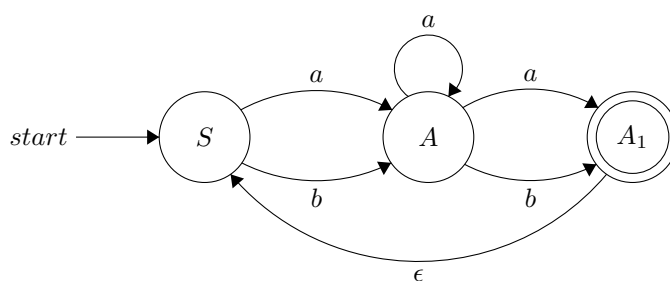
Part 1

This is the language consisting of a string starting with either an a or b , followed by zero or more a 's, ending in either an a or b .

Part 2



Problem 2



Problem 3

Determinism is not important because any non-deterministic automaton can be converted into a deterministic automaton. Similarly, any incomplete automaton can be converted into a complete automaton with the addition of a hell state.