

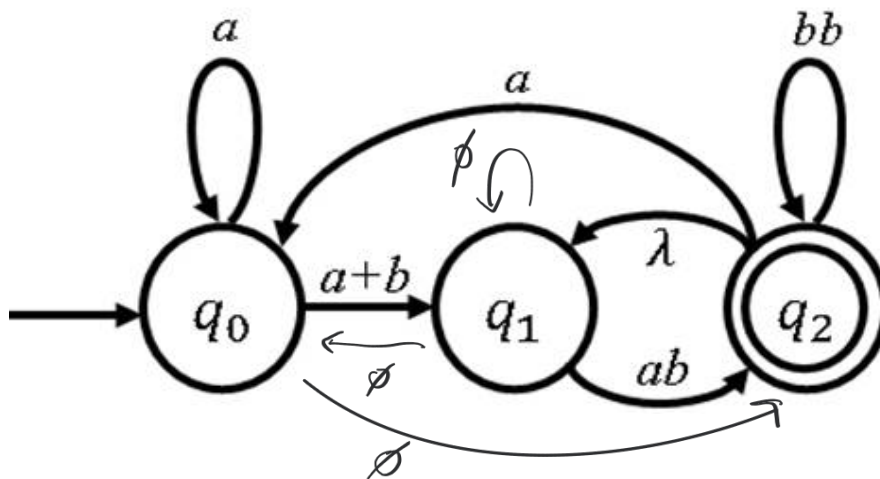
Assignment 6

Automata & Theory of Computation

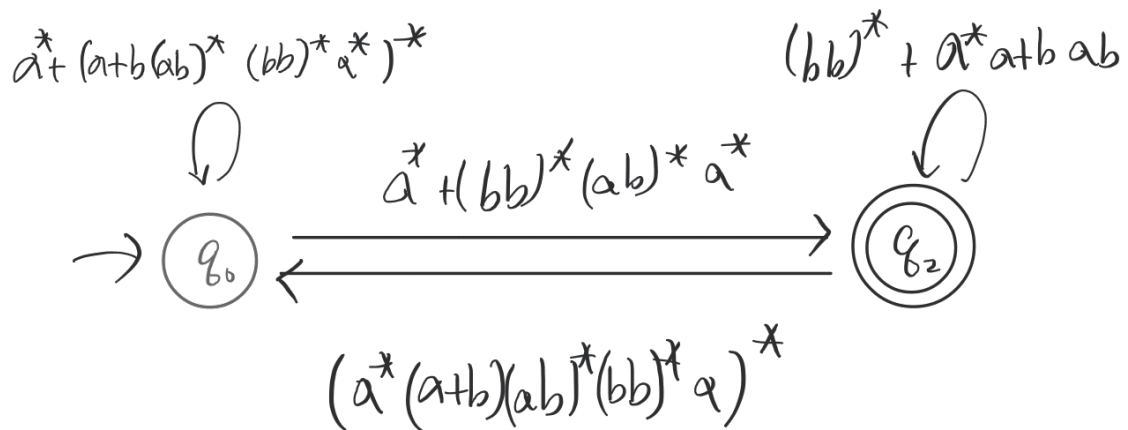
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1. Consider the following generalized transition graph.



(1) Find an equivalent generalized transition graph with only two states.



(2) What is the language accepted by this graph?

$$L = \{ (a^p b^q a^r b^s)^n, p \geq 0, q \geq 0, r \geq 0, s \geq 0, n \geq 0 \}$$