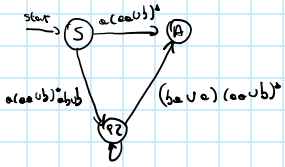
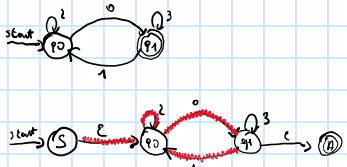
$(S, q_1, A) = a(aa \cup b)^*$

$(S, q_1, q_2) = a(aa \cup b)^* ab \cup b$



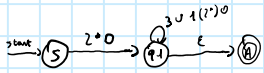
$(ba \cup a)(aa \cup b)^* ab \cup b$



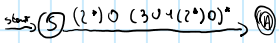
Vogliamo eliminare q_0

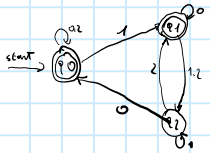
$(S, q_0, q_1) = 2^*0$

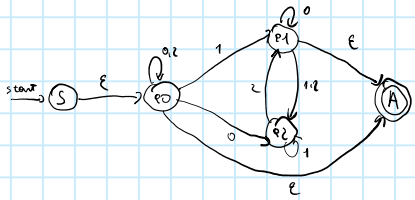
$(q_1, q_0, q_1) = 1 2^* 0$



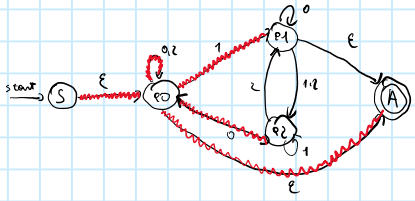
Eliminiamo q_1







Iniziamo togliendo q_0



$(S, q_0, q_1) = S \xrightarrow{\varepsilon} q_0 \xrightarrow{0,2} q_0 \xrightarrow{1} q_1 = S \xrightarrow{(0 \cup 2)^* 1} q_1$

$(S, q_0, A) = S \xrightarrow{\varepsilon} q_0 \xrightarrow{0,2} q_0 \xrightarrow{\varepsilon} A = S \xrightarrow{(0 \cup 2)^*} A$

$(q_2, q_0, q_1) = q_2 \xrightarrow{0} q_0 \xrightarrow{0,2} q_0 \xrightarrow{1} q_1 = q_2 \xrightarrow{0(0 \cup 2)^* 1} q_1$

$(q_2, q_0, A) = q_2 \xrightarrow{0} q_0 \xrightarrow{0,2} q_0 \xrightarrow{\varepsilon} = q_2 \xrightarrow{0(0 \cup 2)^*} A$