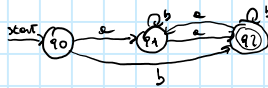


# ESERCITAZIONE - DA DFA A REGEX

lunedì 3 aprile 2023

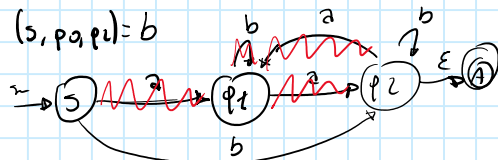
14:07

Convertire il seguente DFA in una REGEX



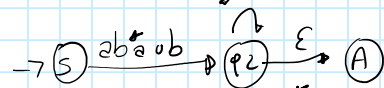
$$(S, q0, q1) = a$$

$$(S, q1, q2) = b$$

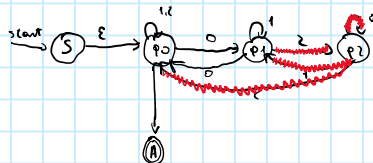
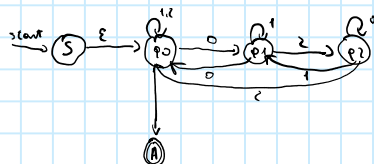


$$(S, q1, q2) = ab^*a \cup b$$

$$(q2, q1, q2) = ab^*a \cup b$$



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



$$q_1 \xrightarrow{2} q_2 \xrightarrow{1} q_1 \equiv q_1 \xrightarrow{2^*1 \cup 1^*} q_1$$

$$q_1 \xrightarrow{2} q_2 \xrightarrow{2} q_0 \equiv q_1 \xrightarrow{2^*2 \cup 2^0} q_0$$

