

# Assignment 1 q1

Tuesday, May 19, 2020

11:35 AM

$S$  ternary representation of  $N$  (base 3)

$M$

$$q_0 = q_0$$

$$\Sigma = \{0, 1, 2\}$$

$$F = \{q_0, q_1, q_3\}$$

$$Q = \{q_0, q_1, q_2, q_3\}$$

$$\delta = \{$$

$$(q_0, 0) \rightarrow q_0$$

$$(q_0, 1) \rightarrow q_2$$

$$(q_0, 2) \rightarrow q_1$$

$$(q_1, 0) \rightarrow q_0$$

$$(q_1, 1) \rightarrow q_2$$

$$(q_1, 2) \rightarrow q_0$$

$$(q_2, 0) \rightarrow q_2$$

$$(q_2, 1) \rightarrow q_3$$

$$(q_2, 2) \rightarrow q_2$$

$$(q_3, 0) \rightarrow q_0$$

$$(q_3, 1) \rightarrow q_2$$



