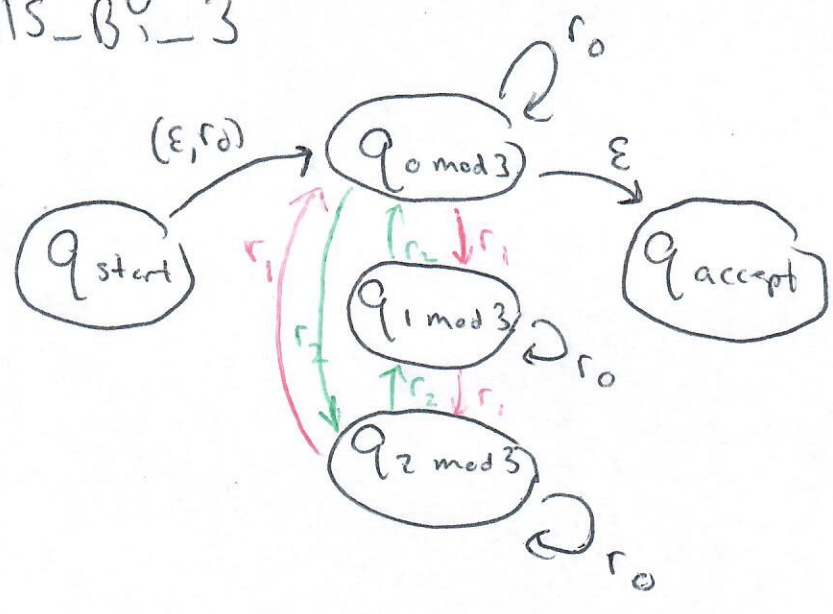
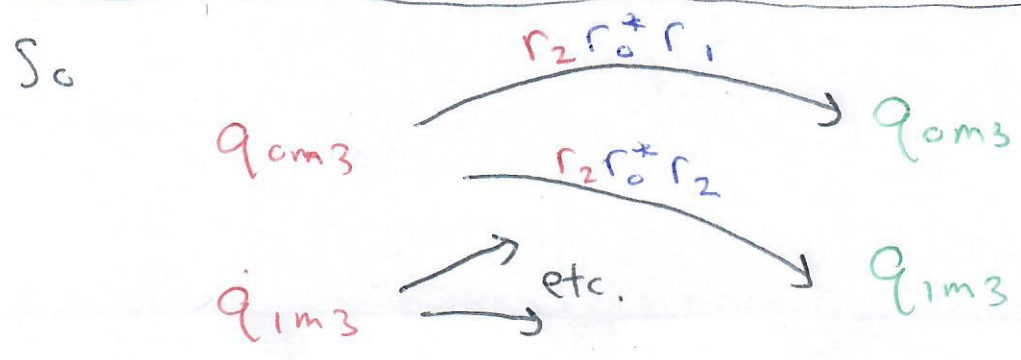
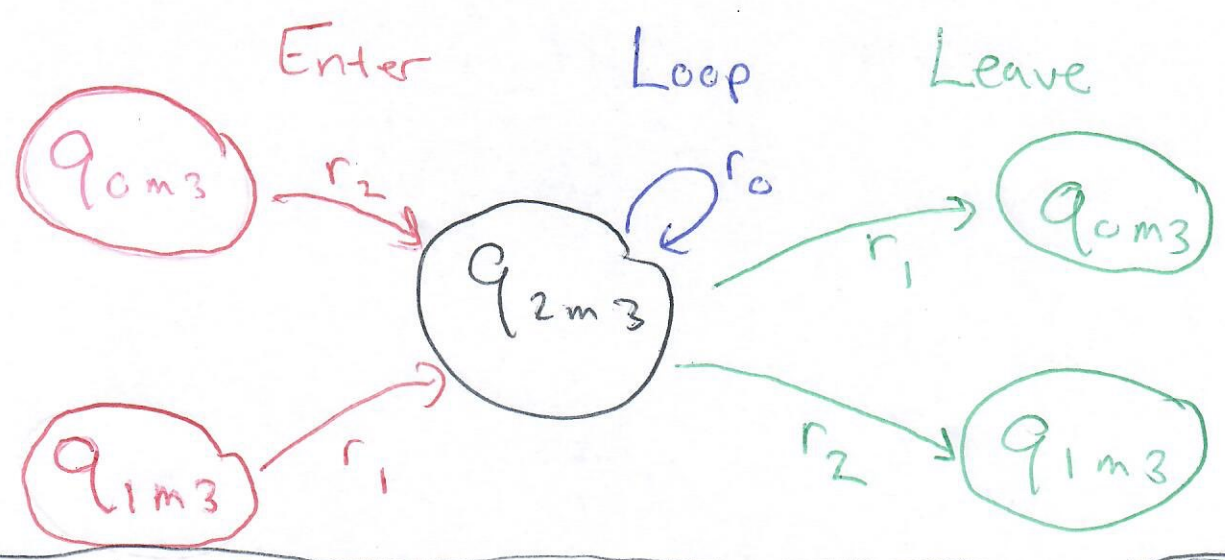


DNIS-BY-3

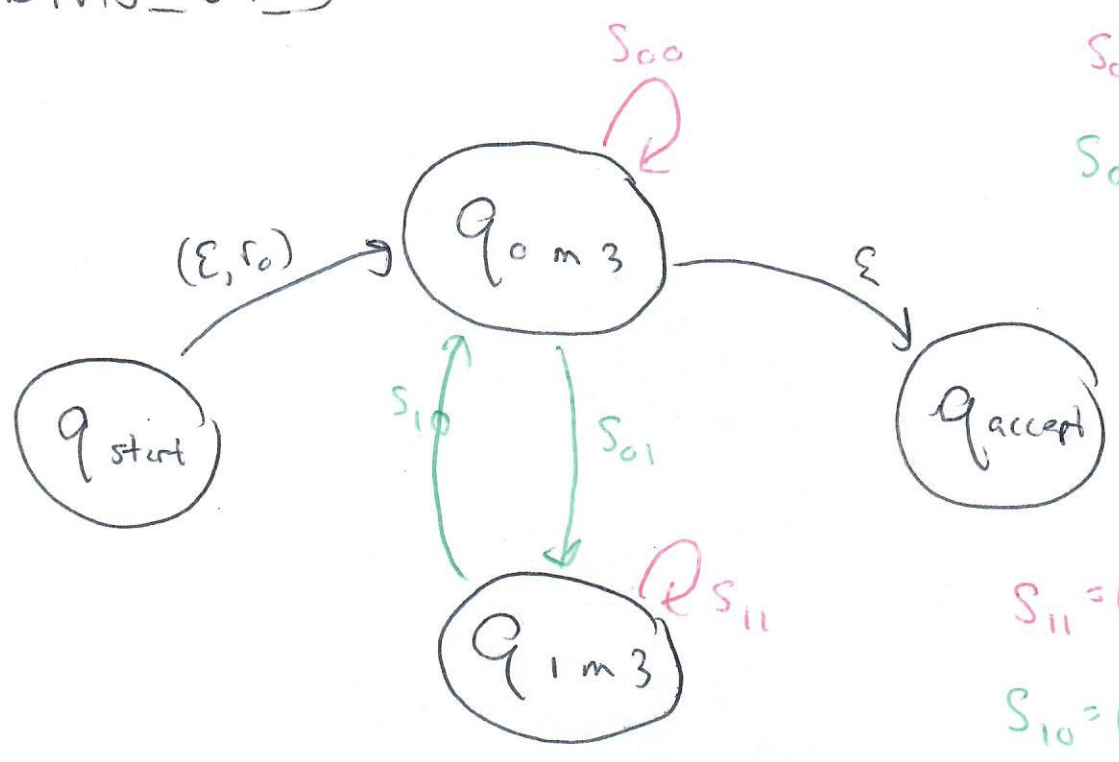


- $r_0 = (0, 3, 6, 9)$
- $r_1 = (1, 4, 7)$
- $r_2 = (2, 5, 8)$

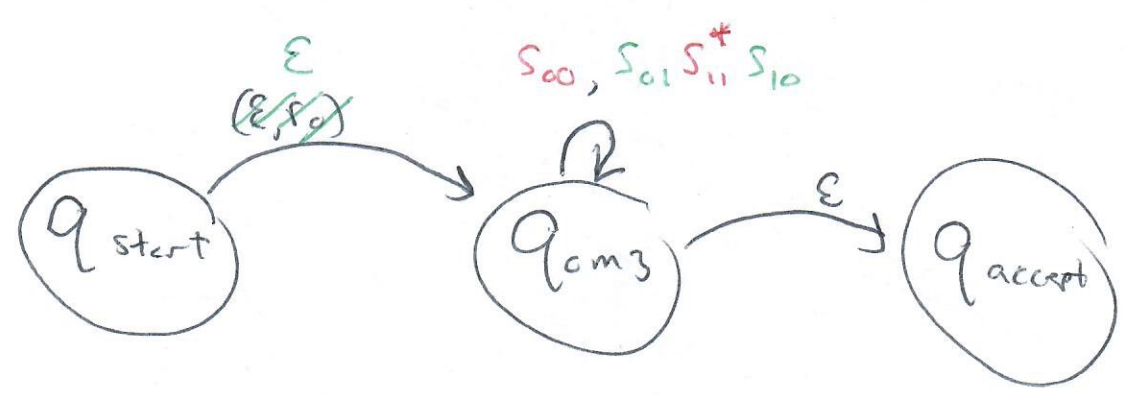
Cut out  $q_2 \text{ mod } 3$ :



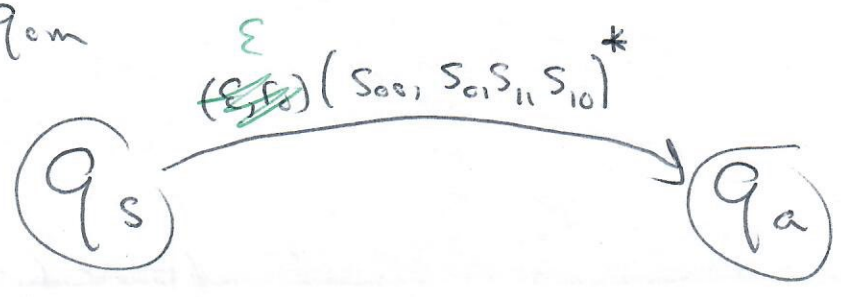
DIVIS\_BY\_3



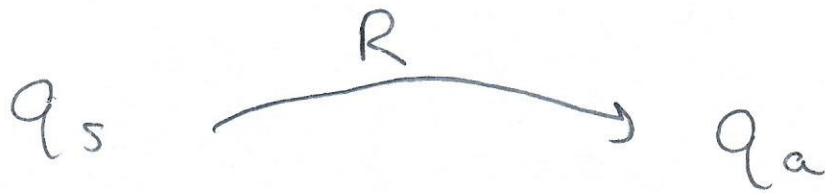
Cut out  $q_{1m3}$



Cut out  $q_{0m}$



DIVIS\_BY\_3



$$R = (\epsilon, r_0) (s_{00}, s_{01}, s_{11}^*, s_{10})^*$$

$$= (\epsilon, r_0) (r_0, r_2 r_0^* r_1, (r_{11}, r_2 r_0^* r_2) (r_0, r_1 r_0^* r_2)^* (r_2, r_1 r_0^* r_1))^*$$

$$= (\epsilon, 0, 3, 6, 9) (0, 3, 6, 9, (2, 5, 8) (0, 3, 6, 9)^* (1, 4, 7),$$

$$(1, 4, 7, (2, 5, 8) (0, 3, 6, 9)^* (2, 5, 8))$$

$$(0, 3, 6, 9, (1, 4, 7) (0, 3, 6, 9)^* (2, 5, 8))^*$$

$$(2, 5, 8, (1, 4, 7) (0, 3, 6, 9)^* (1, 4, 7)) \Big)^*$$