

2025 april 18

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Q22.3 SARSA

$$q_{local}(s_t, a_t, r_t, s_{t+1}, a_{t+1})$$

$$= r_t + \gamma q(s_{t+1}, a_{t+1})$$

$$= 2 + q(3, i)$$

$$= 2 + 6 = 8$$

$$q(s_t, a_t) = q(s_t, a_t) + \eta (q_{local} - q(s_t, a_t))$$

$$= 9 + 0.1 (8 - 9)$$

$$= 9 - 0.1 = 8.9$$