Assignment 1

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Theory

Problem 1

Update for Sarsa

$$Q(S,A) = Q(S,A) + \alpha[R + \gamma Q(S,A) - Q(S,A)]$$
 (1)

Update for Q-Learning

$$Q(S,A) = Q(S,A) + \alpha[R + \gamma maxQ(S,A) - Q(S,A)] \tag{2}$$

Problem 2

Code

Sarsa (λ)

Q-Learning $TD(\lambda)$ with RBF