Assignment 1

Author: **Paolo Renzi**

Theory

Problem 1

Update for Sarsa

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

Update for Q-Learning

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

Problem 2

Code

Sarsaλ

Q-Learning TDλ with RBF