FROZEN LAKE Stats

****
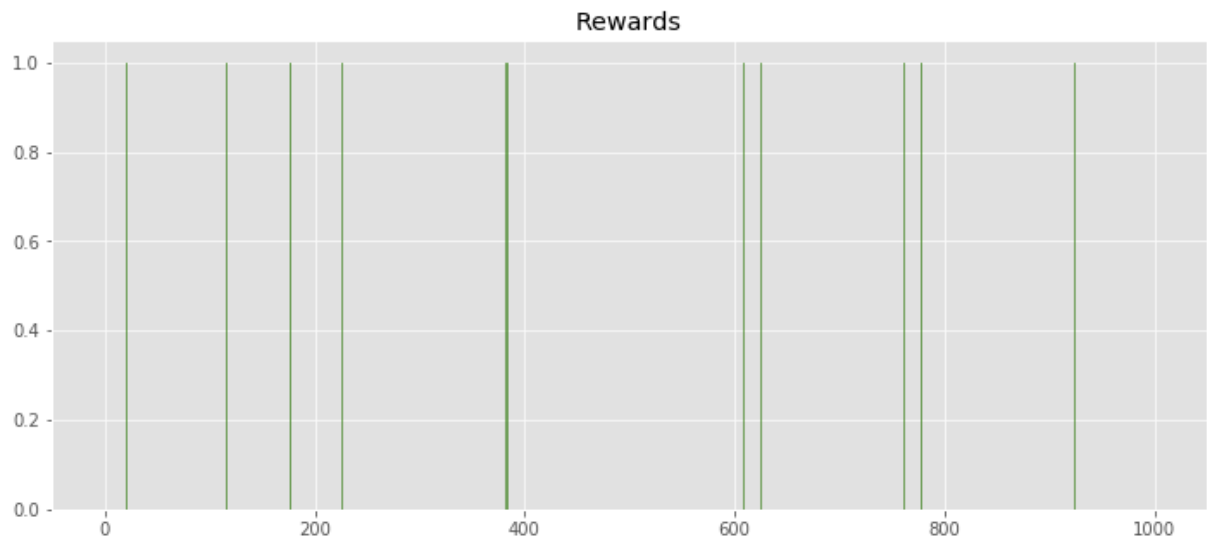
RANDOM MOVES (stochastic environment)

Percent of episodes finished successfully: 0.017
Percent of episodes finished successfully (last 100 episodes): 0.02
Average number of steps: 8.07
Average number of steps (last 100 episodes): 7.98

Rewards

Steps / Episode length

****
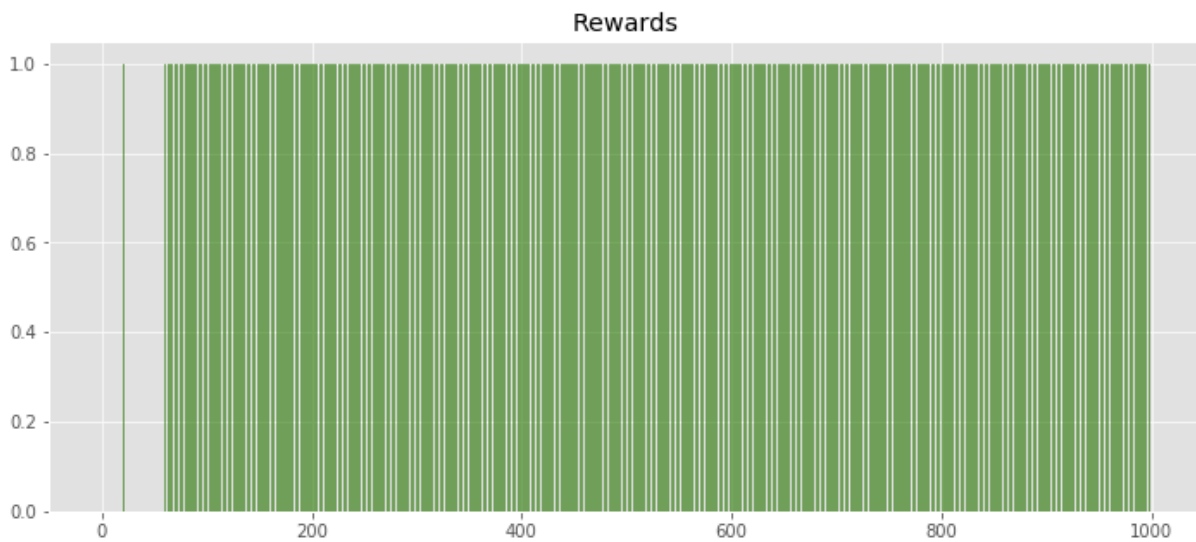
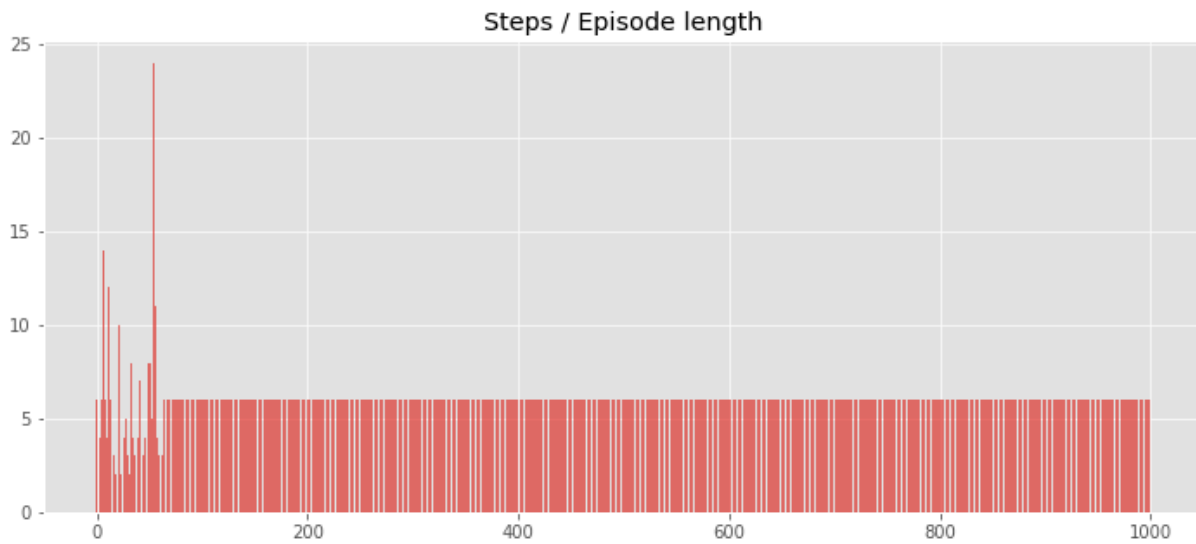BELLMAN EQUATION (deterministic environment)

Percent of episodes finished successfully: 0.942
Percent of episodes finished successfully (last 100 episodes): 1.0
Average number of steps: 6.04
Average number of steps (last 100 episodes): 6.00

Rewards

Steps / Episode length

****
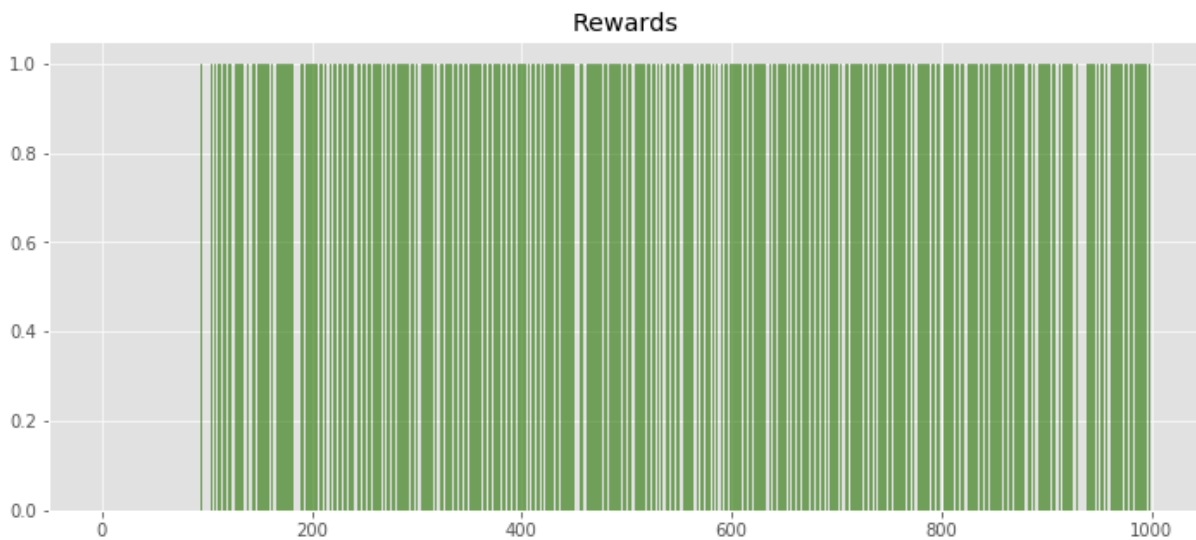
EGREEDY (deterministic environment)

Percent of episodes finished successfully: 0.803
Percent of episodes finished successfully (last 100 episodes): 0.88
Average number of steps: 6.45
Average number of steps (last 100 episodes): 6.21

Rewards

Steps / Episode length

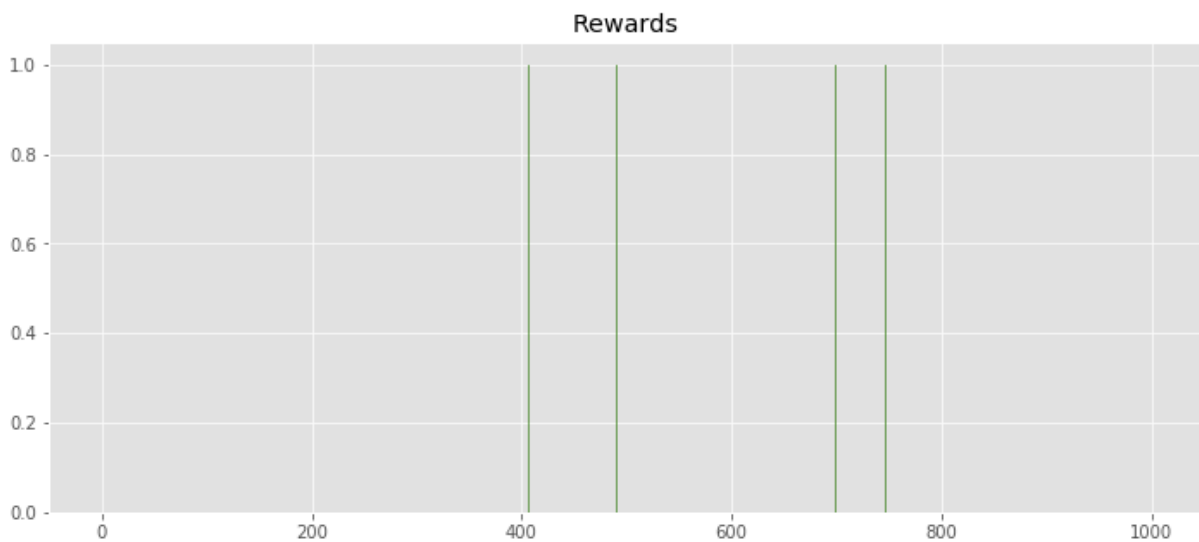**

BELLMAN EQUATION - for stochastic environment

Percent of episodes finished successfully: 0.013
Percent of episodes finished successfully (last 100 episodes): 0.01
Average number of steps: 8.01
Average number of steps (last 100 episodes): 8.54

Rewards

Steps / Episode length

****
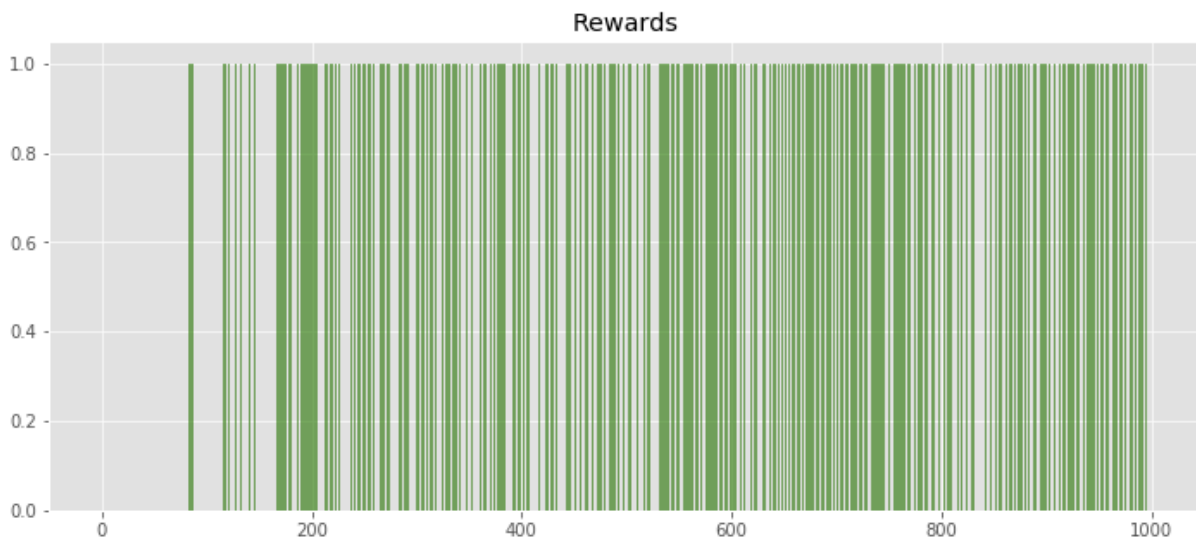
Q LEARNING - Stochastic environment

Percent of episodes finished successfully: 0.621
Percent of episodes finished successfully (last 100 episodes): 0.82
Average number of steps: 36.44
Average number of steps (last 100 episodes): 42.06

Rewards

Steps / Episode length

BONUS LESSON

Value iteration for stochastic env

Percent of episodes finished successfully: 0.725
Percent of episodes finished successfully (last 100 episodes): 0.68
Average number of steps: 40.56
Average number of steps (last 100 episodes): 45.09

Rewards

Steps / Episode length