Problem Set VII: Pac Man Project with Reinforcement Learning

Aim The purpose of this workshop is to help you get a better understanding of reinforcement learning and how to work with Q functions.

http://ai.berkeley.edu/reinforcement.html

Your Task Your task is to pick up from where you left of last week, and to complete the *fourth* question of Project 3 at http://ai.berkeley.edu/reinforcement.html#Q4. You should already have all the necessary files to complete this task.

Hints In order to help you complete the task during the workshop, here are some useful hints:

- 1. The functions that you need to change:
 - (a) computeValueFromQValues
 - (b) getQValue
 - $(c) \ \ compute Action From QValues.$
- 2. The files you need to take a look:
 - (a) util.py (Counter())
 - (b) featureExtractors.py
- 3. How to test your code:
 - (a) python gridworld.py -a q -k 5 -m (to get your agent to learn via keyboard input)
 - (b) python autograder.py -q q4 (testing by autograde)