pacmanAgents.py (original)

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# pacmanAgents.py
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# Licensing Information: Please do not distribute or publish solutions to this
# project. You are free to use and extend these projects for educational
# purposes. The Pacman AI projects were developed at UC Berkeley, primarily by
# John DeNero (denero@cs.berkeley.edu) and Dan Klein (klein@cs.berkeley.edu).
# For more info, see http://inst.eecs.berkeley.edu/~cs188/sp09/pacman.html
from pacman import Directions
from game import Agent
import random
import game
import util
class LeftTurnAgent(game.Agent):
  "An agent that turns left at every opportunity"
  def getAction(self, state):
    legal = state.getLegalPacmanActions()
    current = state.getPacmanState().configuration.direction
    if current == Directions.STOP: current = Directions.NORTH
    left = Directions.LEFT[current]
    if left in legal: return left
    if current in legal: return current
    if Directions RIGHT[current] in legal: return Directions RIGHT[current] if Directions Left[left] Directions [RIGHT[current]]
    return Directions.STOP
class GreedyAgent(Agent):
  def __init__(self) etable="self.evaluationFunction = util.lookup(evalFn, globals())
    assert self.evaluationFunction != None
  def getAction(self) elections eChat powcoder
# Generate candidate dections
    legal = state.getLegalPacmanActions()
    if Directions.STOP in legal: legal.remove(Directions.STOP)
    successors = [(state.generateSuccessor(0, action), action) for action in legal]
    scored = [(self.evaluationFunction(state), action) for state, action in
successors1
    bestScore = max(scored)[0]
    bestActions = [pair[1] for pair in scored if pair[0] == bestScore]
    return random.choice(bestActions)
def scoreEvaluation(state):
  return state.getScore()
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