INFO8006: Project 1 - Report

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1 Problem statement

- The initial state is given by the layout of the maze which gives the initial position of Pacman
 and the initials positions of all the food dots. The possible states are a combination of Pacman
 position and the positions of the remaining food dots.
 - The legal actions are going north, going south, going west, and going east.
 - The action taken will have the effect to change Pacman position in the maze (if the action is legal). If the cell on which Pacman arrives contains a food dot, the food dot is eaten and removed from the maze.
 - The goal is reached if all the food dots have been eaten.
 - We can use 12 + (-1 * # number of eaten food) + (-10 if # winning end) as a step cost.

2 Implementation

a.b. Leave empty.c.d.e. Leave empty.f.

3 Experiment 1

a.

b.

c.

d.

4 Experiment 2

- a.
- b.
- c.