

Report of Program Search in Pac-Man

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Q4:

- Use Manhattan Distance that implemented in util.py
- It's admissible because from current position to goal position need at least Manhattan Distance even without wall, if there is wall on the path then need to have more cost to go around the wall. So, Manhattan Distance is admissible and can be used to estimate future cost.

Q6:

- Use Manhattan Distance to calculate each unvisited corners and return maximum Manhattan Distance
- It's admissible because from current state to goal state need at least Manhattan Distance from current position to most far corner even without wall. If there is another unvisited corner then we need to have extra cost to go visit the corner.