UDACITY

REVISED REVIEW

PROJECT

Implement a Planning Search

A part of the Artificial Intelligence Program

PROJECT REVIEW

CODE REVIEW 2

NOTES

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Meets Specifications

Planning Problem Representation

The problems and class methods in the `my_air_cargo_problems.py` module are correctly represented.

Correct!

An optimal sequence of actions is identified for each problem in the written report.

All optimal plans look correct

Here's something fun to think about for you: in your plan for P3 (`ignore_preconditions` , I'm guessing?) look at what P1 does. It lands in JFK, unloads C1 and then sits around for a long time doing nothing before finally unloading C3 in the 11th step. Obviously, we wouldn't want a plane lying around idle in the real world. But how would you modify your problem and/or actions and/or constraints to make sure this wouldn't happen.

Obviously not needed for this report, but just something to think about

Automated Heuristics

Automated heuristics "ignore-preconditions" and "level-sum" (planning graph) are correctly implemented.

Correct!

Performance Comparison

At least three uninformed planning algorithms (including breadth- and depth-first search) are compared on all three problems, and at least two automatic heuristics are used with A* search for planning on all three problems including "ignore-preconditions" and "level-sum" from the Planning Graph.

Good job trying out all required (and more!) algorithms! Your A* implementations look correct as well!

A brief report lists (using a table and any appropriate visualizations) and verbally describes the performance of the algorithms on the problems compared, including the optimality of the solutions, time elapsed, and the number of node expansions required.

Really great analysis and very well-presented results!

The report explains the reason for the observed results using at least one appropriate justification from the video lessons or from outside resources (e.g., Norvig and Russell's textbook).
Your recommendation makes perfect sense. Good job!

Research Review

The report includes a summary of at least three key developments in the field of AI planning and search.
Very well written summary!

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