UDACITY

PROJECT

Implement a Planning Search

A part of the Artificial Intelligence Nanodegree Program

PROJECT REVIEW

CODE REVIEW

ANNOTATIONS 1

NOTES

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Meets Specifications

This is a perfect submission. You have a very good understanding of underlying concepts. Congratulations on successfully completing the project.

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.

Awesome: Good work! You have identified the optimal no. of steps for each of the 3 problems.

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! You have implemented the atleast two automatic heuristics along with the uninformed planning search algorithms.

✓

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.

Very neat comparison of all the different search results on problems 1, 2 and 3.

✓

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).

Great analysis! However please site your outside resources (e.g., Norvig and Russell's textbook). Since this is academic paper, students are encouraged to add references to their claims. All sources that are used in producing this report (video lecture, text book) should be included at the end in a Reference section, similar to how you did it in research summary.

Research Review

✓

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

Well written

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