UDACITY

PROJECT

Implement a Planning Search

A part of the Artificial Intelligence Nanodegree and Specializations Program

PROJECT REVIEW

CODE REVIEW 2

NOTES

SHARE YOUR ACCOMPLISHMENT!

Meets Specifications

Great work on your submission, your project meets all the specifications. Hope this nanodegree will be a great learning experience for you. All the best 👍

Useful Links

1. Planning and Search
2. Planning as problem solving
3. Forward Planning

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.

Solutions presented for all the problems are optimal !!

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 work on implementing the planning algorithms and automatic heuristics !!

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.

Good work on report !! Good use of visualisations in showcasing the results of your heuristics.

```
Problems
------------------
    1. Air Cargo Problem 1
    2. Air Cargo Problem 2
    3. Air Cargo Problem 3

Search Algorithms
------------------
    1. breadth_first_search
    2. breadth_first_tree_search
    3. depth_first_graph_search
    4. depth_limited_search
    5. uniform_cost_search
    6. recursive_best_first_search h_1
    7. greedy_best_first_graph_search h_1
    8. astar_search h_1
    9. astar_search h_ignore_preconditions
    10. astar_search h_pg_levelsum
```
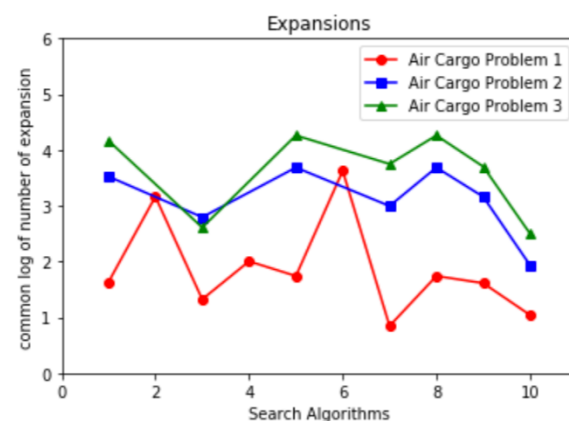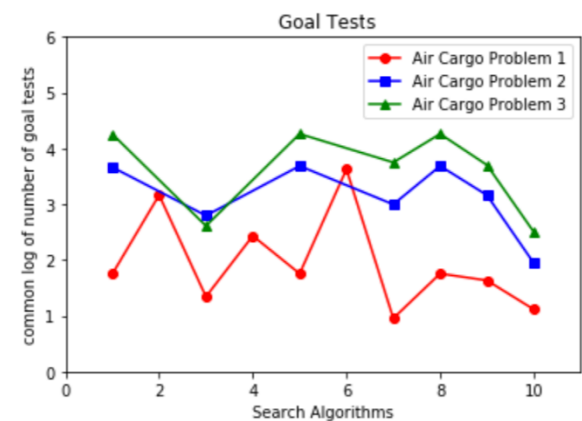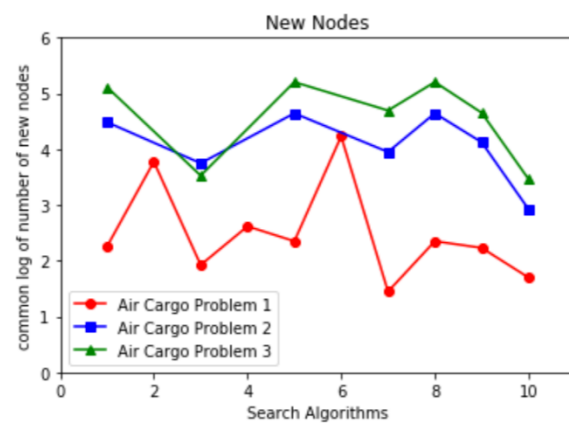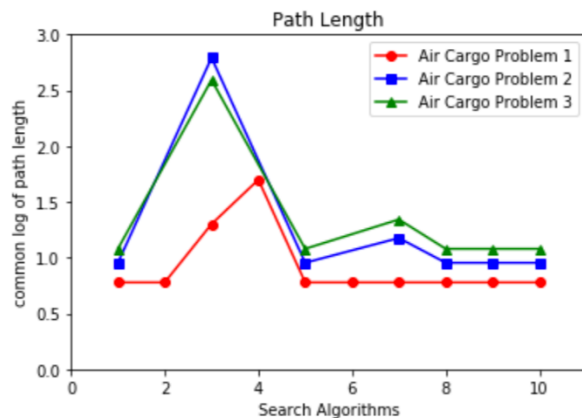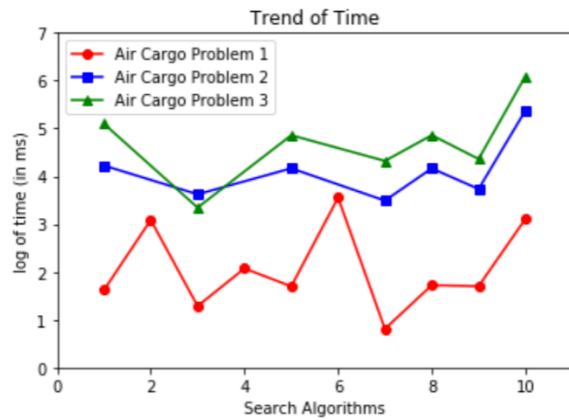

The report explains the reason for the observed results using at least one appropriate justification from the video lessons or from outside resources (e.g., Norvig and Russell's textbook).

Good analysis 👌 Good job citing the sources of your claims.

Research Review

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

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2   CODE REVIEW COMMENTS   ❯