

[Return to "Artificial Intelligence Nanodegree" in the classroom](#)

# Build a Forward Planning Agent

REVIEW

CODE REVIEW 3

ANNOTATIONS 1

HISTORY

## Meets Specifications

Commendable Learning Attitude.

I must say, the report is brilliant. I found it a bit strange why it wasn't sent along side the fantastic code in the last review. Such hard work deserves a one time pass. Nonetheless, this accuracy and creativity will certainly be voted for excellence by me, your reviewer. Please keep up this hard work.

***NB:.** As a Udacity reviewer, our main goal is to help the student to produce an outstanding project(like this one). Kindly take just some few seconds to tell us in the `comment section` what you think you needed extra so as to facilitate the project. This will improve our review. We will greatly appreciate it. THANKS.*

## Planning Graph Implementation



(AUTOGRADED) Student code passes all Project Assistant test cases for:

- `ActionLayer` mutual exclusion rules:
  - `_inconsistent_effects()`
  - `_interference()`
  - `_competing_needs()`
- `Literallayer` mutual exclusion rules:

- `_inconsistent_support()`
- `_negation()`

Correct! (Note: this rubric item was graded automatically.)

## Heuristic Implementation

- ✓ (AUTOGRADED) Student code passes all Project Assistant test cases for:  
Correctly implemented

- **PlanningGraph** class heuristics:
  - `h_levelsum()`
  - `h_maxlevel()`
  - `h_setlevel()`

Correct! (Note: this rubric item was graded automatically.)

## Experimental Results & Report

- ✓ Report includes a table or chart to analyze the number of nodes expanded against number of actions in the domain.
- The chart or table includes data for all search & heuristic combinations for air cargo problems 1 and 2
  - The chart or table includes data at least one uninformed search, two heuristics with greedy best first search, and two heuristics with A\* on air cargo problems 3 and 4
  - Report includes at least a one paragraph discussion of these results that analyzes the growth trends as the problem size increases

- ✓ Report includes a table or chart to analyze the search time against the number of actions in the domain.
- The chart or table includes data for all search & heuristic combinations for air cargo problems 1 and 2
  - The chart or table includes data at least one uninformed

search, two heuristics with greedy best first search, and two heuristics with A\* on air cargo problems 3 and 4

- Report includes at least a one paragraph discussion of these results that analyzes the growth trends as the problem size increases



Report includes a table or chart to analyze the length of the plans returned by each algorithm on all search problems.

- The chart or table includes data for all search & heuristic combinations for air cargo problems 1 and 2
- The chart or table includes data at least one uninformed search, two heuristics with greedy best first search, and two heuristics with A\* on air cargo problems 3 and 4



Submission includes a short answer to each of the following questions. (A short answer should be at least 1-2 sentences at most a small paragraph.)

- Which algorithm or algorithms would be most appropriate for planning in a very restricted domain (i.e., one that has only a few actions) and needs to operate in real time?
- Which algorithm or algorithms would be most appropriate for planning in very large domains (e.g., planning delivery routes for all UPS drivers in the U.S. on a given day)
- Which algorithm or algorithms would be most appropriate for planning problems where it is important to find only optimal plans?

The report submitted is really good. It has amazing and intelligent answers. Well done.

 [DOWNLOAD PROJECT](#)



CODE REVIEW COMMENTS



RETURN TO PATH