(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()

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

* PlanningGraph class heuristics:
  + h\_levelsum()
  + h\_maxlevel()
  + h\_setlevel()

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?