CMSC 421 — Assignment 3: Representation & Planning
Addendum and Setup Instructions
Due: Tuesday, October 28, 2025, 11:59 PM

Getting Started

1. Clone the Correct Repository

git clone git@github.com:carwyn987/aima-python.git

Or get at https://github.com/carwyn987/aima-python

Important: The AIMA repo for this assignment differs slightly from those used in previous assignments. You must use this updated version.

2. Starter File

- Provided file: `submission_rush_hour_blank.py`
- Contains all functions, docstrings, and task descriptions.

3. Implementation Rules

- All code must be implemented only in `submission_rush_hour.py`.
- Rename the starter file exactly before submitting.
- Do not modify any other repository files. The autograder will import only your submission file.

Submission Instructions

- Submit exactly one file: `submission_rush_hour.py`. Do not zip. Submit early to avoid last-minute issues.
- The autograder will test:
  - `rush_hour_4x4()`,
  - `simple_rush_hour_manual()`,
  - `test_simple_rush_hour_graphplan()`,
  - `test_complex_rush_hour_graphplan()`
  - `part_d()`
  - (Extra Credit) `rush_hour_with_trucks()`

Grading Breakdown

Component	Description	Points
Part A	Domain & Action Definitions	35
Part B	Manual Plans (Simple & Complex)	20
Part C	GraphPlan Execution	20
Part D	State–Action Matching	25
Part E (Extra Credit)	Trucks Domain	+30
Total		**100 (+30 EC)**

Point distributions & EC awarded points are subject to change at the instructor's discretion.

Note - If you find bugs, or have suggestions for improvement, please open a PR or Issue.