William Argus 004610455

My contributions:

Explaining the MDP system and operation of the robot to teammates. Determining state space, action space. Determining mathematically how the probability function works and explaining in pseudo-code how to code it to Iou-Sheng Cheng and XianXing Jiang. Reviewing code and debugging after it is written. Determining how to store probability of a state such that the function to return probability of each state is simple to write.

Helping to explain policy iteration, give mathematical equations for correct implementation, and help debug code during its implementation.

Explaining Value Iteration from a theoretical standpoint to Iou-Sheng Cheng and XianXing Jiang. Gave assistance with answering questions to coding problems (for example, which coding approach to take in order to correctly implement value iteration). Helped debug and verify that code was producing the expected results. Recommended fixes when code did behave as it was supposed to (for example, having the car stop moving while in a red square, something that should never happen in a correctly implemented value iteration algorithm). Reviewed code to check for errors in implementation when it was finished.

Wrote report introduction, and helped write overview and sections 2 through 6. Proofread report and helped place in LaTeX using Overleaf.