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Project 2: Path Planning

# Initial Conditions

# Path Planning

# Navigation

# Performance Enhancement

# ROS Structure

1. Initial conditions. Show the initial and assigned destination cells in the maze.
2. Path planning.
   1. Discuss how the path planning works, in particular the lines titled ”Poll the queue” and ”Find the path if the goal is found and break the loop”.
   2. Identify (1) the path planned at the start cell, (2) the path planned at cell O (refer to Figure 1) and (3) the eventual path. Discuss why they are the same or different.
3. Navigation. Discuss how the PID control is implemented, including:
   1. The code that you have added,
   2. The control gains.
4. Performance enhancement. Discuss what you planned to improve, how you did it and the results.
5. ROS structure. Include the graph of ROS nodes and topics of the simulation. Identify and describe the 3 main nodes and topics pertaining to those nodes.