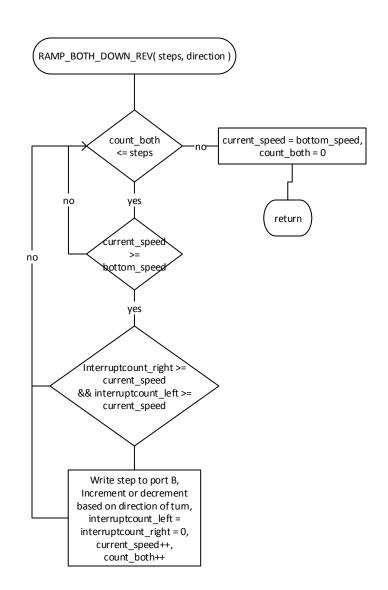
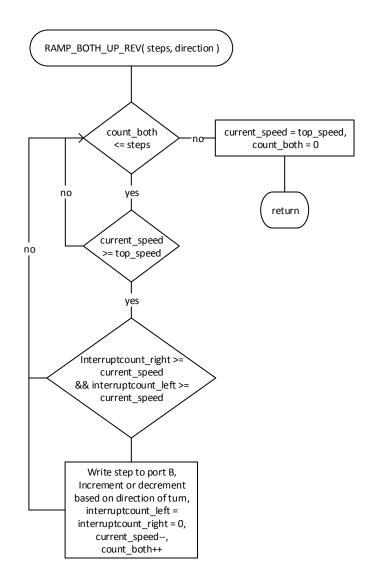
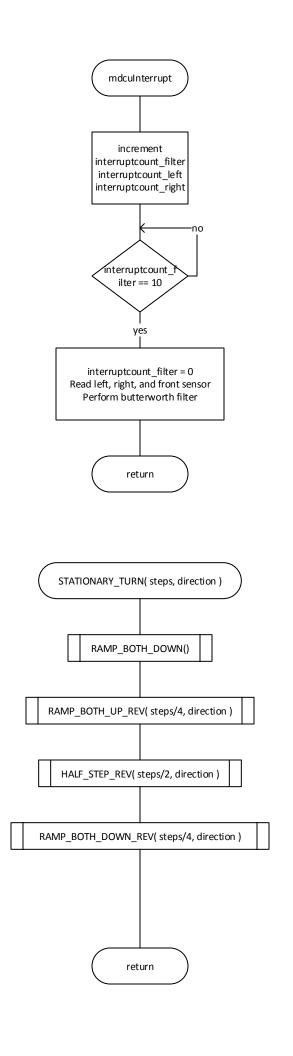


Michael Goltz Joshua Philpott

Spring 2014 Control of Mobile Robots Micromouse Project

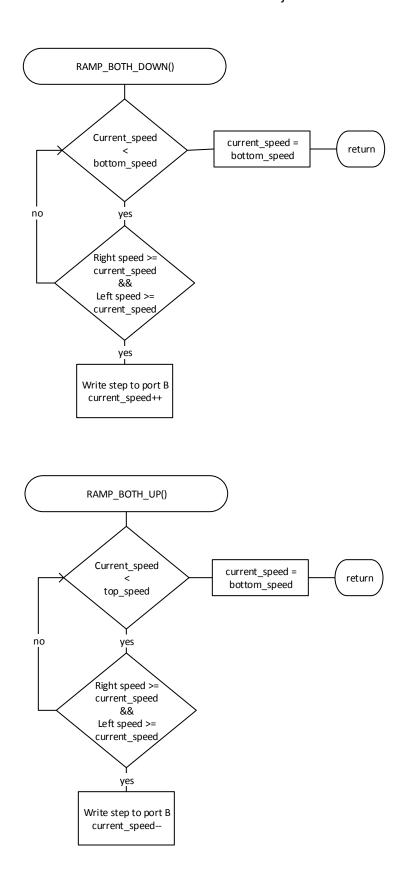


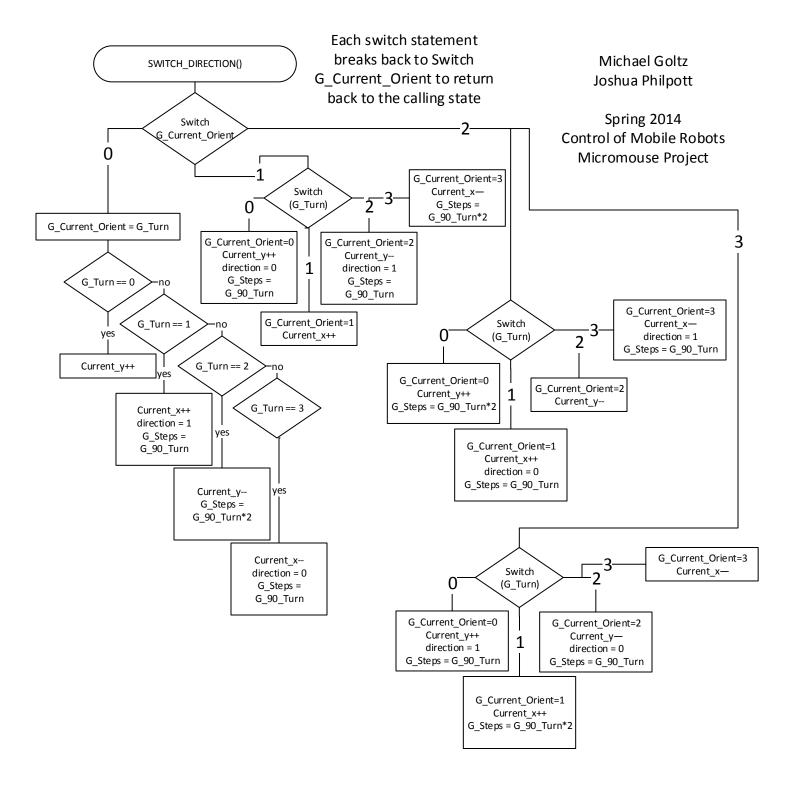




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Spring 2014 Control of Mobile Robots Micromouse Project

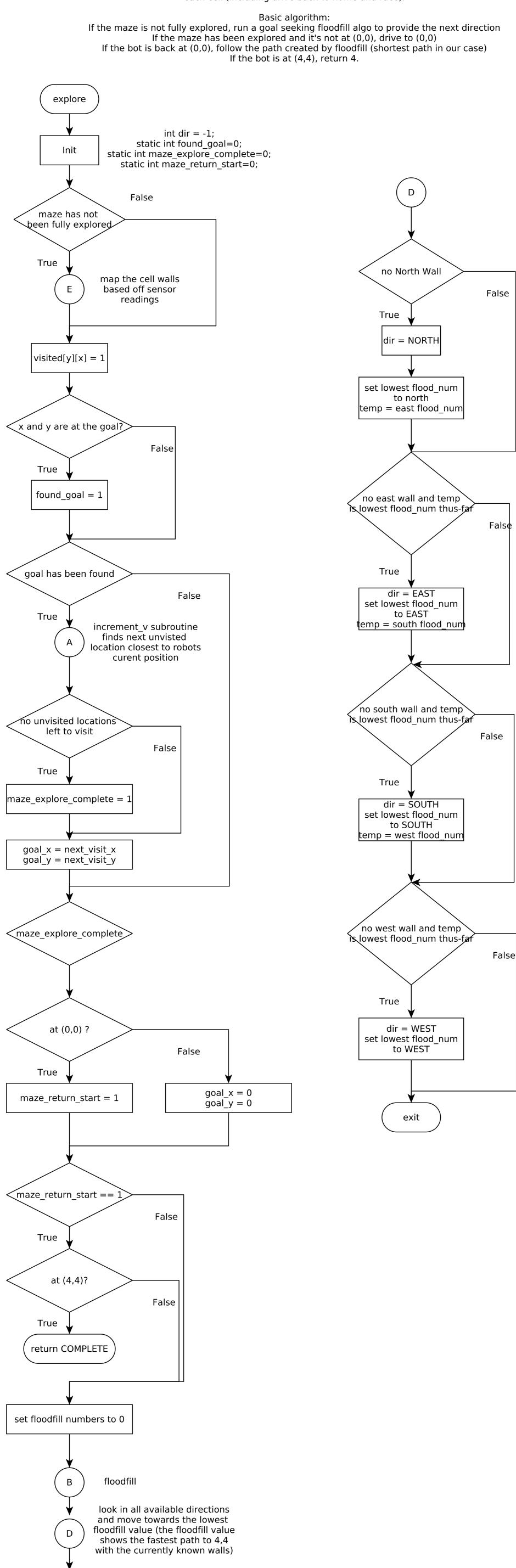




explore:

The explore algorithm started as simply the explore logic. Through programming the assignment, it eventually became the function which determines the next move for the entirety of the maze.

Based off some flags (which hopefully are fairly self descriptive), explore implements different methods to provide the bot with the next move at each cell (including drive back to home and race).



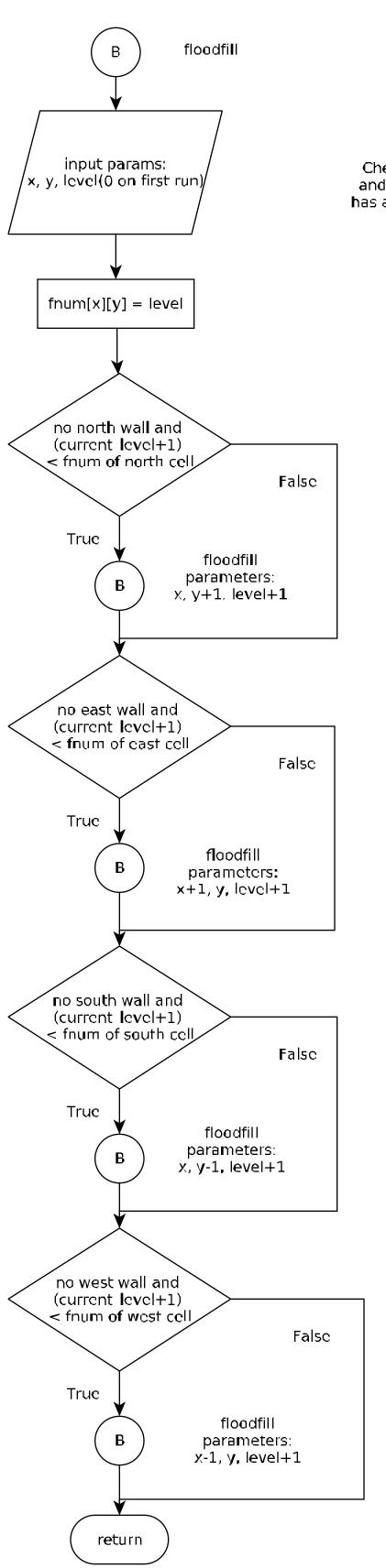
dir >= 0

return DIRECTION

True

False

return ERROR



floodfill is a recursive algorithm

Takes parameters x,y, and level

Sets fnum array to level (indicates distance away from start)

Checks north, east, south, and west cells and runs floodfill (with level + 1) if the cell has a floodfill value > (level+1) and no walls between it

