Updates

• Homework:
  – Homeworks #10/11/12 graded on canvas
  – Homeworks #13/15 due Sunday night @ 11pm
  – Read the group design exercise to prepare for recitation next week!

• Project:
  – Project 4 graded on Canvas
  – Project 5 due tonight @ 11 PM
  – Project 6 released, due 3/2 @ 11 PM. Checkpoint due 2/23 @ 11 PM

• Exam coming up on 3/7

• Be sure to fill out question sheet to receive attendance points today!
Today

- Project 6
- Homework discussion
Project #5 Questions?
Project 6

• New mazes
  – You must solve m1, m2, m3
  – m4, m5, m6 are recommended but not required
  – come up with a new algorithm

• Write requirements

• Checkpoint due 2/23
New Mazes

• You must solve m1, m2, m3
New Mazes

• Take a look at m4, m5, m6 Mazes you will be expected to solve in the future
Tips

• Keep your algorithm simple
• Leverage the visit count array from Project 5
• Bumped\((x_1, y_1, x_2, y_2)\) checks whether the edge with endpoints \((x_1, y_1)\) and \((x_2, y_2)\) exists

\[
bumped(2,1,2,2) = \text{true}\]

![Diagram showing bumped function example](image)
Requirements

• Write requirements for the new algorithm you think of
  – From product point of view
  – Don’t reference internal variables
  – See HW 18a for thorough explanation

• Example requirements for left-hand rule:
  – R-1: If the turtle is obstructed by a wall, the turtle shall turn right.
  – R-2: If the turtle is not obstructed by a wall, the turtle shall move one square in the direction it is facing.
  – R-3: If the turtle has just completed a move forward, it shall turn left regardless of obstruction.
  – R-4: If the turtle has reached the end square of the maze, it shall not move.
Checkpoint

• Due 2/23
• Brief description of algorithm
• Requirements
• Screenshot of turtle attempts at m1, m2, m3 (do not have to be solved for checkpoint)
Project 6 Questions?

• Review
  – New mazes
  – Write requirements
  – Don’t forget the checkpoint
  – You’ll be writing documentation, unit tests, etc for this implementation in future projects
Homework Discussion