Maze Activity Using Maze Solving Algorithms

Objective: Apply algorithms to solving mazes

Activity Description: Use the Wall Following algorithm or Dead-End Filling algorithm to solve the following mazes:

Wall Following Algorithm: The wall following rule, also known as either the left-hand rule or the right-hand rule, states that if you keep one hand in contact with one wall of the maze the player is guaranteed not to get lost and will reach a different exit if there is one; otherwise, he or she will return to the entrance having traversed every corridor in the maze at least once. This rule works only for simply connected mazes. An example is shown below:

Dead End Filling Algorithm: Dead-end filling is an algorithm for solving mazes that fills all dead ends, leaving only the correct way unfilled. It can be used for solving mazes on paper or with a computer program, but it is not useful to a person inside an unknown maze since this method looks at the entire maze at once.
Maze 2
Maze 4