

Robotics Badges: Programming Robots 1

Robot Maze 2 Solution

One possible solution for writing a LEFT HAND ON WALL program in PSEUDOCODE:

BEGIN Loop

WHILE not at exit (*keep running this loop until you reach the exit*)

GO forward

IF path on left is open

THEN turn left

REPEAT Loop (*test to make sure you are not at the exit, go forward and test openings*)

ELSE (if there is no left opening)

IF path ahead is open

THEN GO forward

REPEAT Loop (*test for exit, go forward and test for openings*)

ELSE (if there is no left opening or path ahead)

IF path on right is open

THEN turn right

REPEAT Loop (*test for exit, go forward and test for openings*)

ELSE (if you are at a dead end)

Turn around

REPEAT Loop (*test for exit, go forward and test for openings*)

END Loop (you are at the exit!)