Puzzle 2

Condylarth Puzzle
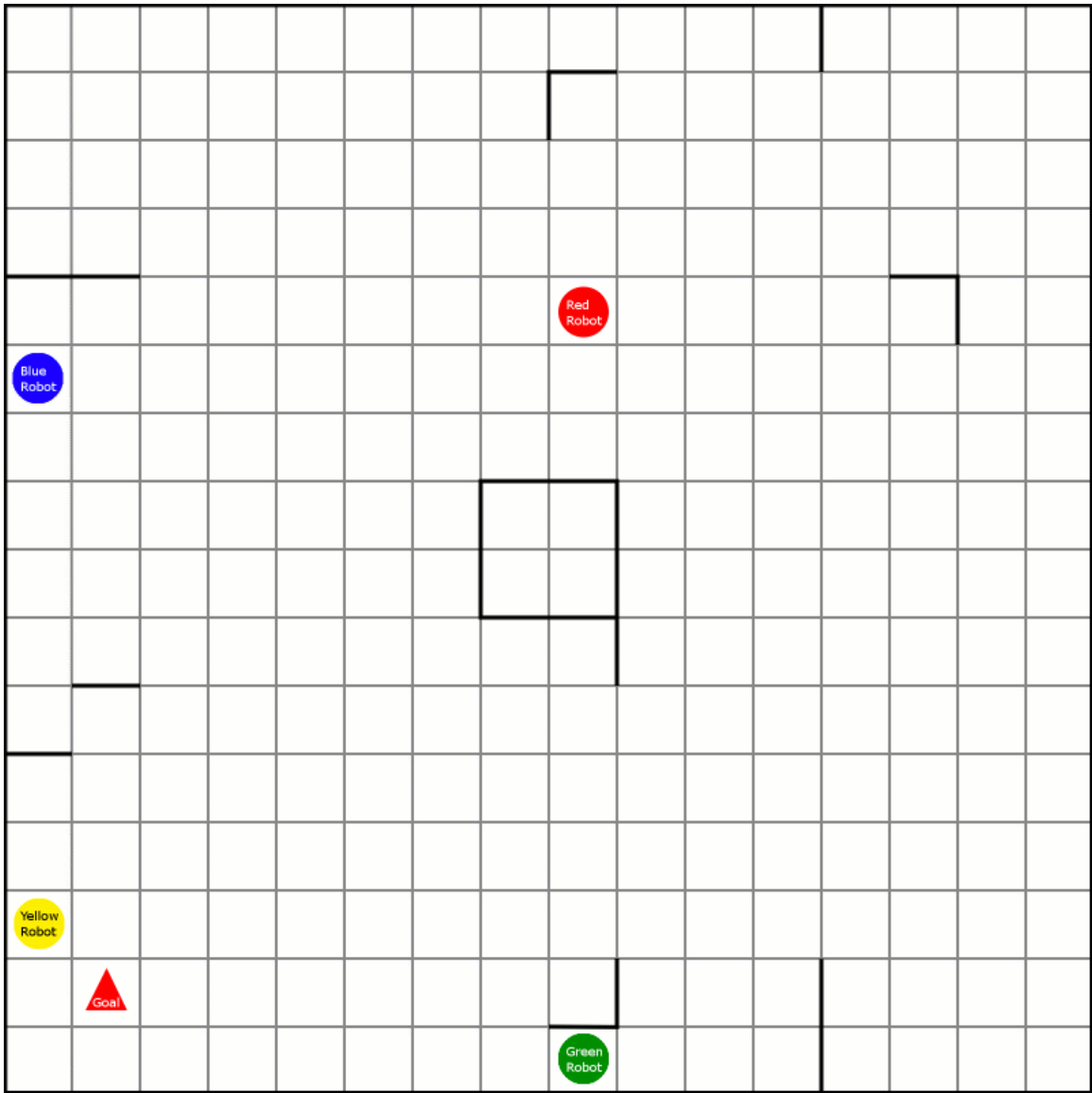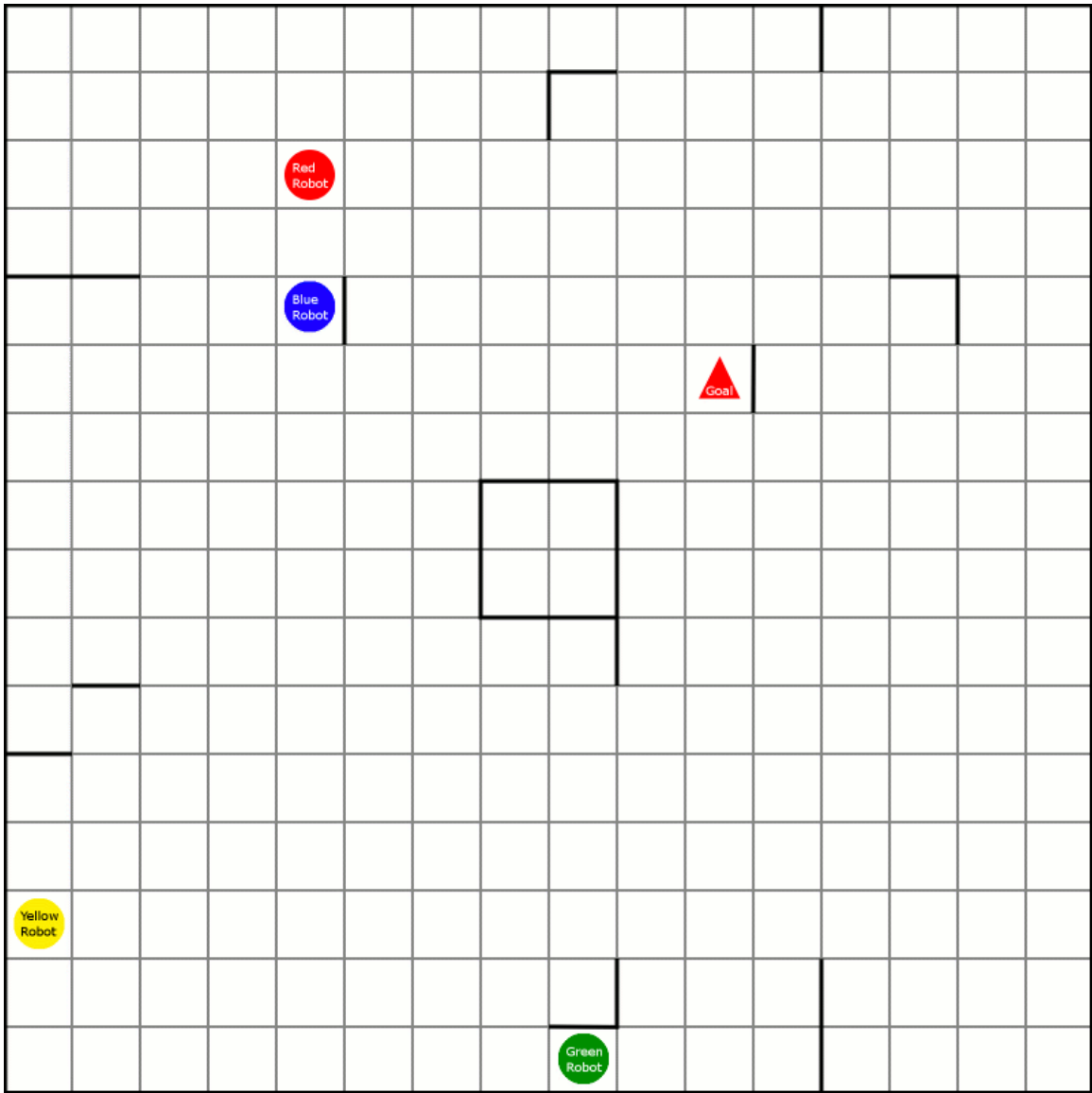
23 July 2006

Abstract

The author undertook a study to test improvements in intellectual capacity from playing the game Ricochet Robot. The results of the study demonstrate a 25% average improvement in performance on various intelligence tests after an intensive round of Ricochet Robot. In particular, although there are improvements in results across all kinds of intelligence, performance on tests of spatial relations abilities increase most notably.

The game of Ricochet Robot is played as follows. Four robots — red, green, blue, and yellow — are in a factory. The robots can move in any direction horizontal or vertical, but their brakes are broken and they cannot stop on their own. Once they start in a direction they keep going until they hit a wall or another robot, at which point they come to a complete stop.
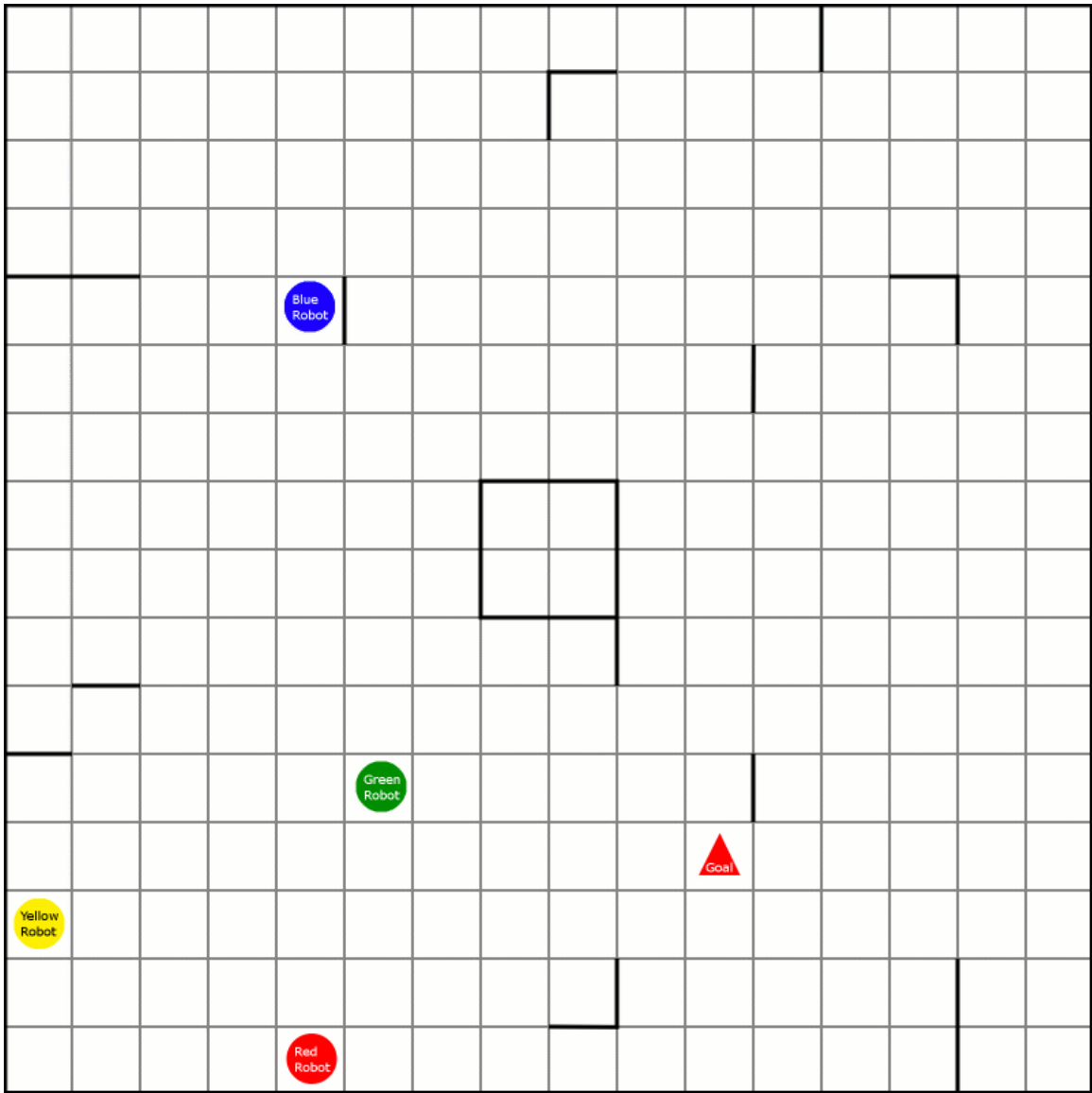
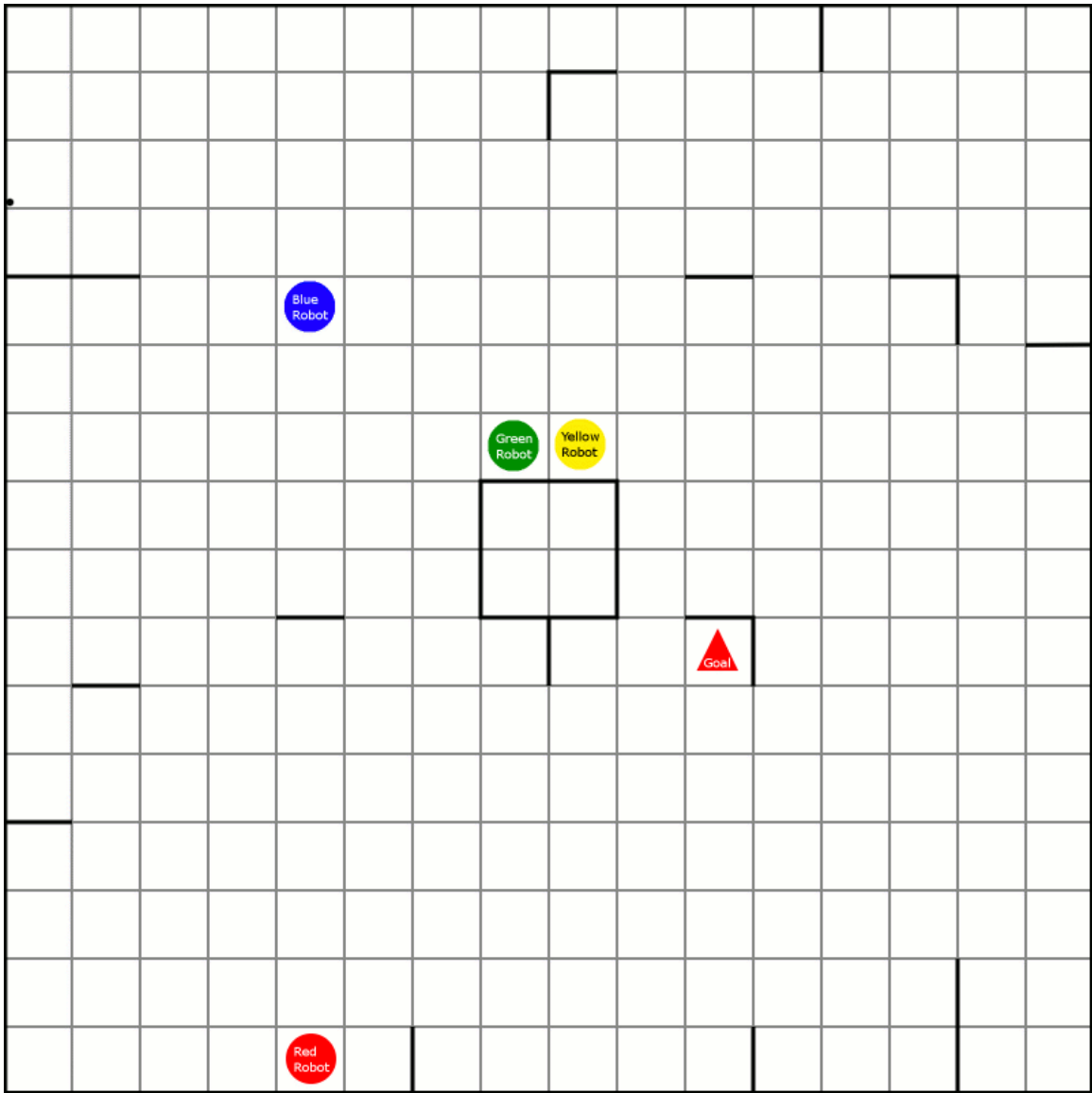The red robot is attempting to reach the goal. The best solutions are those with the fewest number of moves; how far a robot travels on each move does not matter.
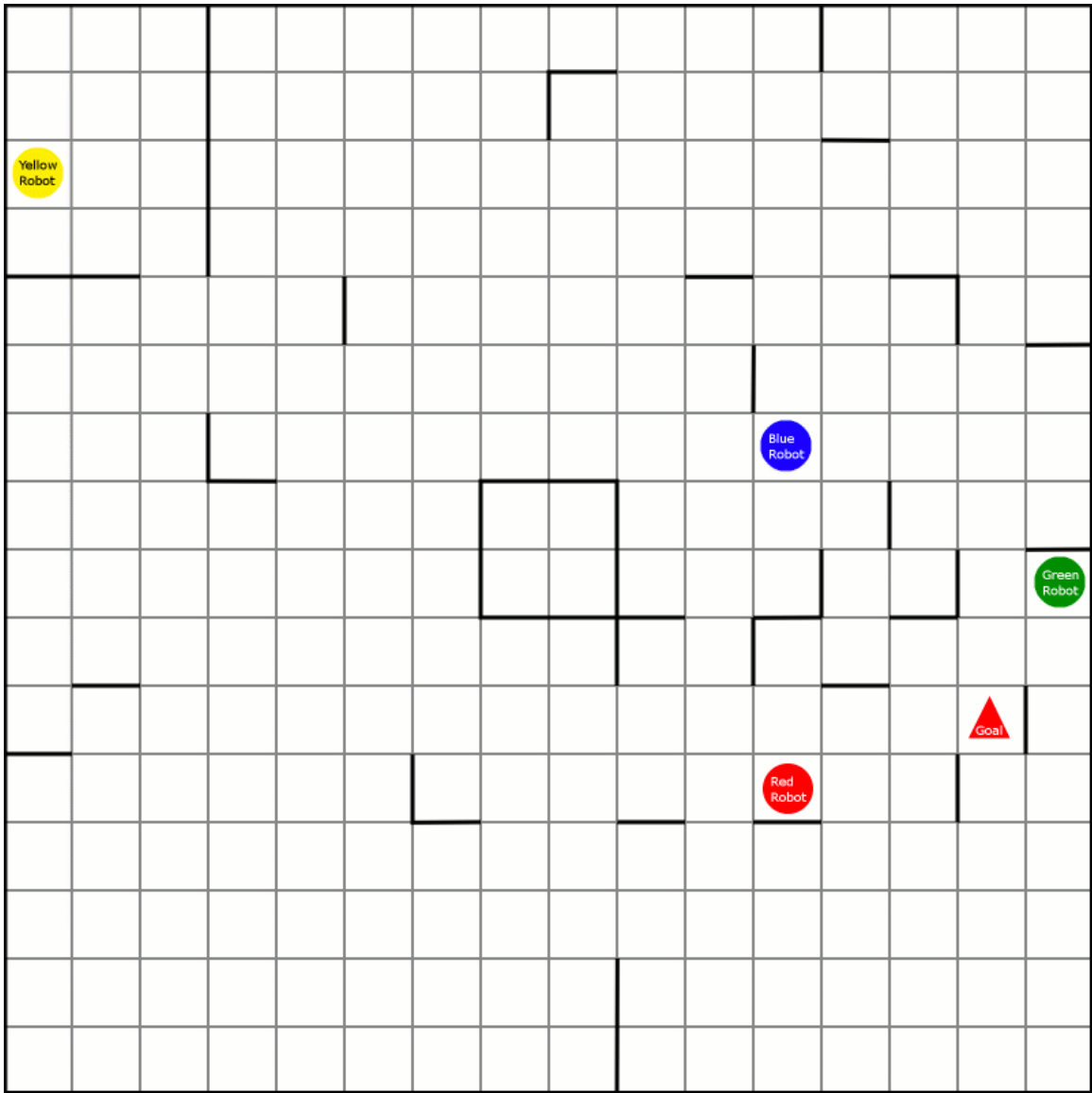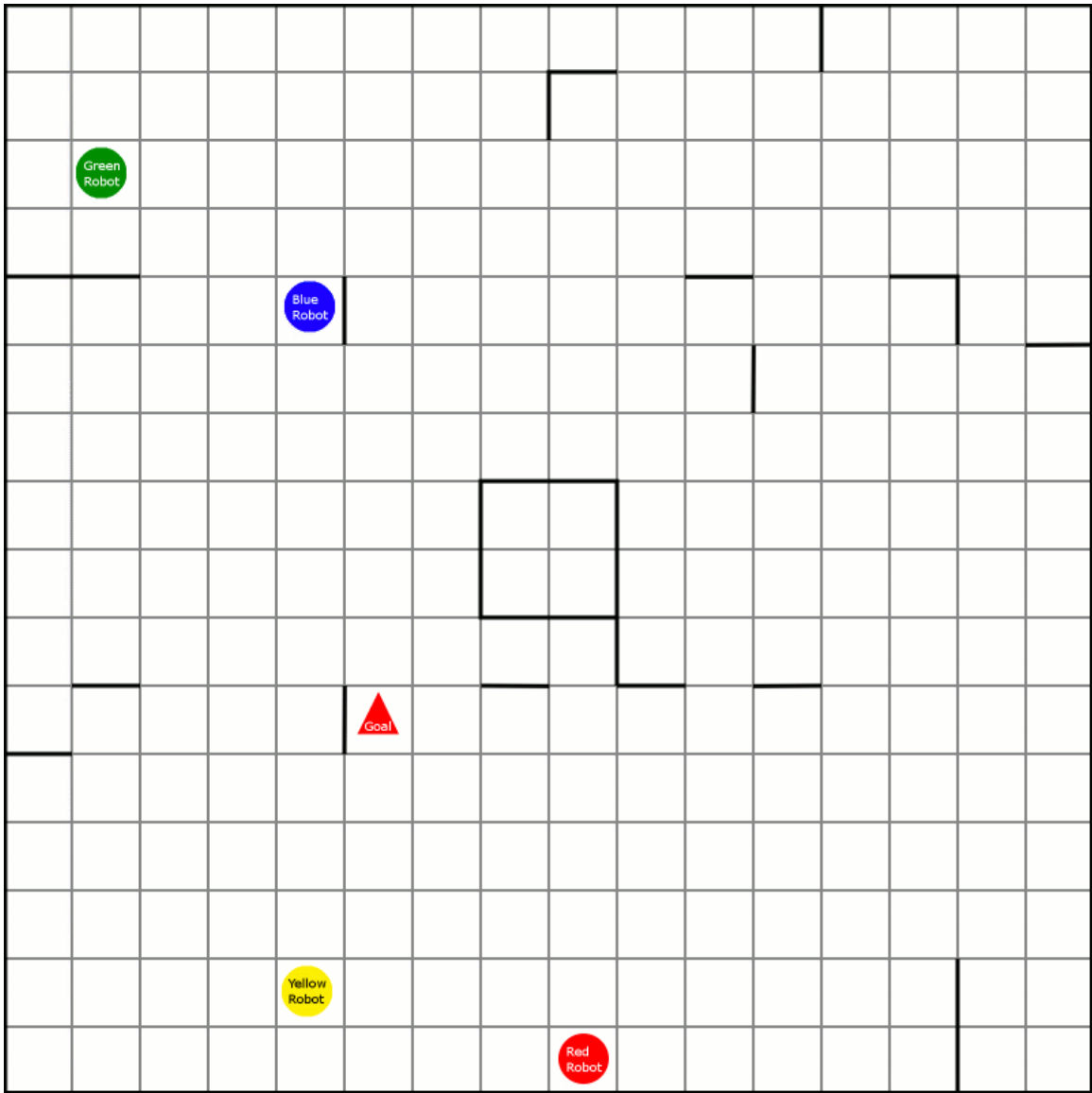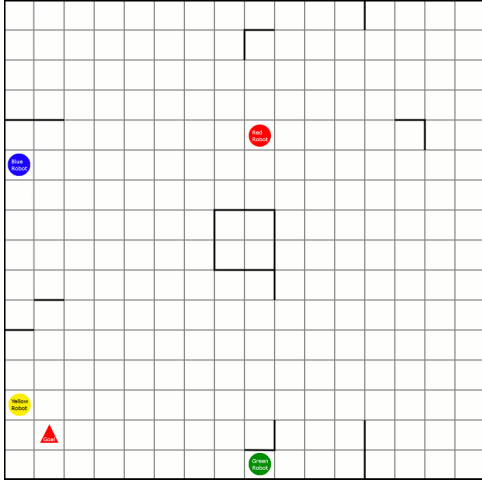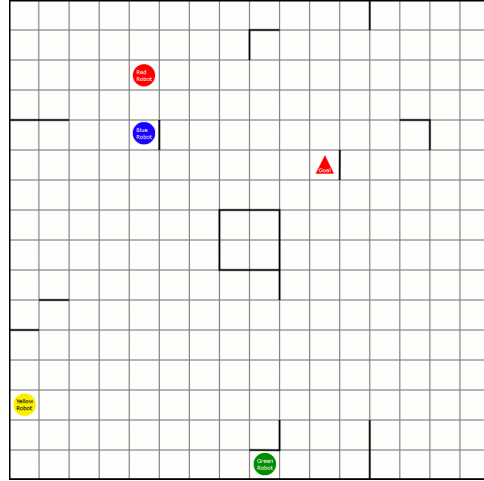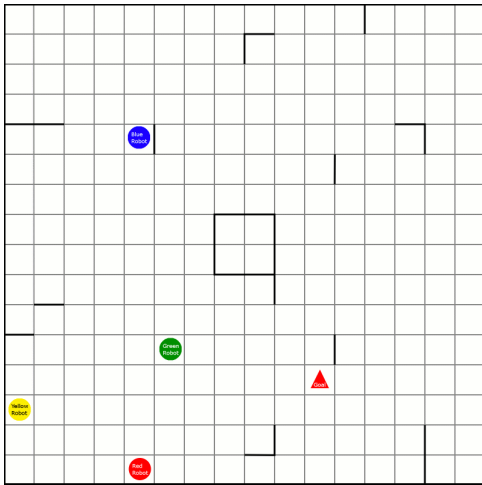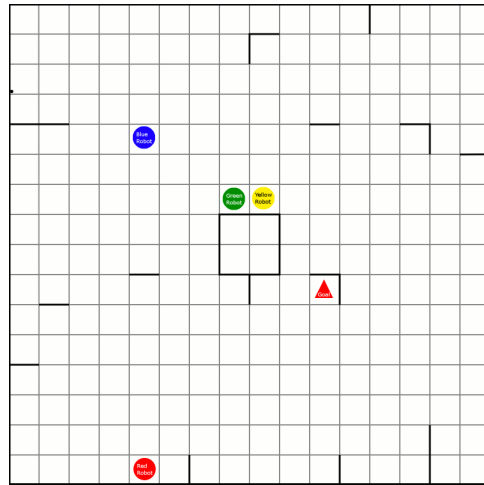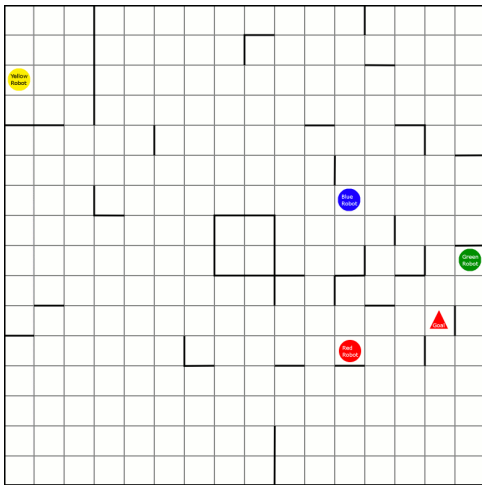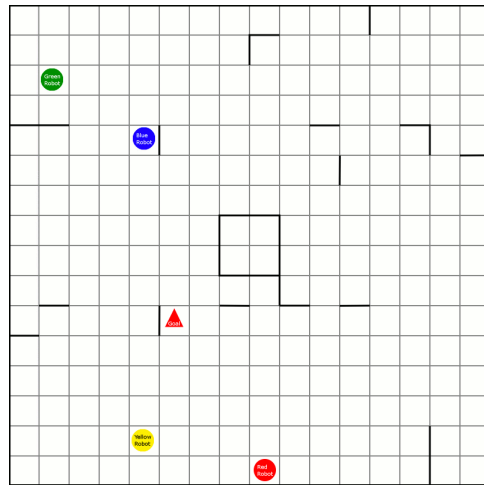
Board 1

Board 2

Board 3

Board 4

Board 5

Board 6

Board 1

Board 2

Board 3

Board 4

Board 5

Board 6