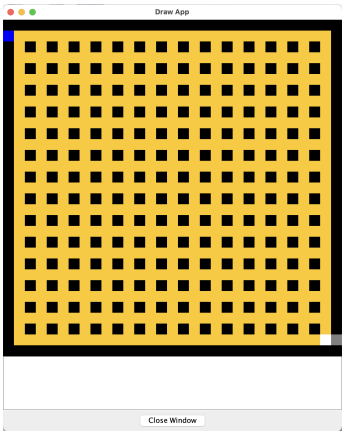
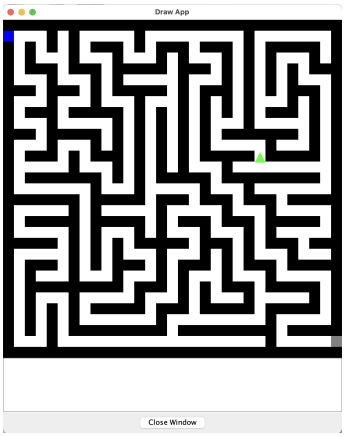
COMP0002 Principles of Programming - C Coursework

What this program does:

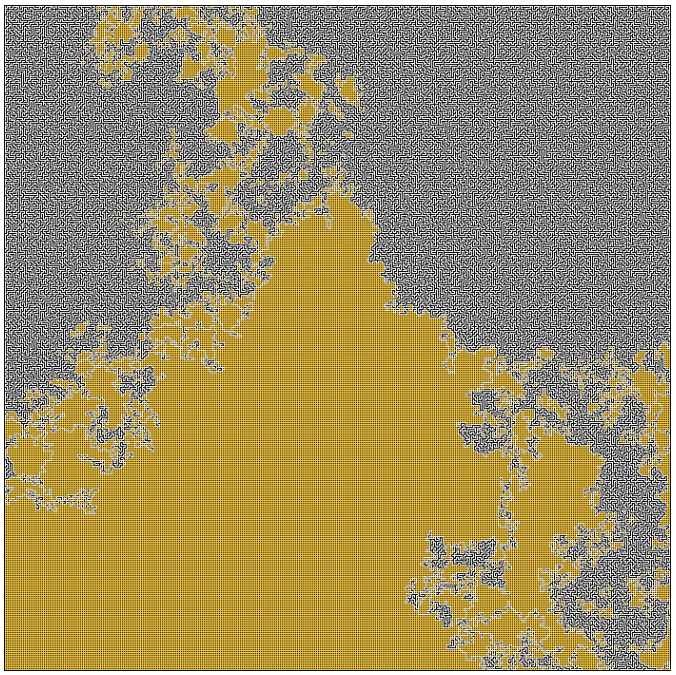
- The robot (the green triangle) can solve any maze as long as it is “perfect” (ie. no loops) by sticking to the left wall.
- The “perfect” maze is randomly generated by a recursive backtracking function. The size can be any positive odd integer between 3 and 1499 (height limit of drawapp-2.0.jar) inclusive, determined by the user.
- The program will continuously run and generate a new maze after the robot solves the previous one.

The robot





The base maze template of 31x31 cells and a randomly generated maze with robot solving it



The program generating a 701x701 maze

Commands needed to compile and run the program:

- Compile: gcc -o maze maze.c graphics.c
- Run: ./maze | java -jar drawapp-2.0.jar