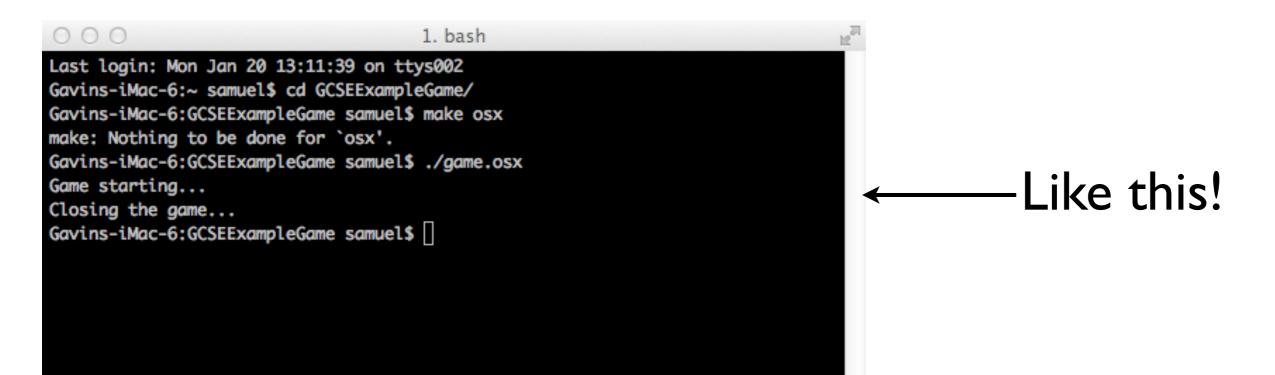
GCSE-Computing Project

Maze Game

How to test the program

To see the program for yourself, type 'make pi' into the console if you are on a computer which is not a Mac, or 'make osx' if you are on a Mac.

Then type './game.pi' if you're not on a Mac, and './game.osx' if you are.



Analysis

Create a maze game that has the following features:

- A character that rotates in the direction it's moving, and teleports back to the start if it touches any wall.
- Scores and a scoreboard
- A victory condition (Touching the checkered flag)

Analysis Part 2

We will also add these features:

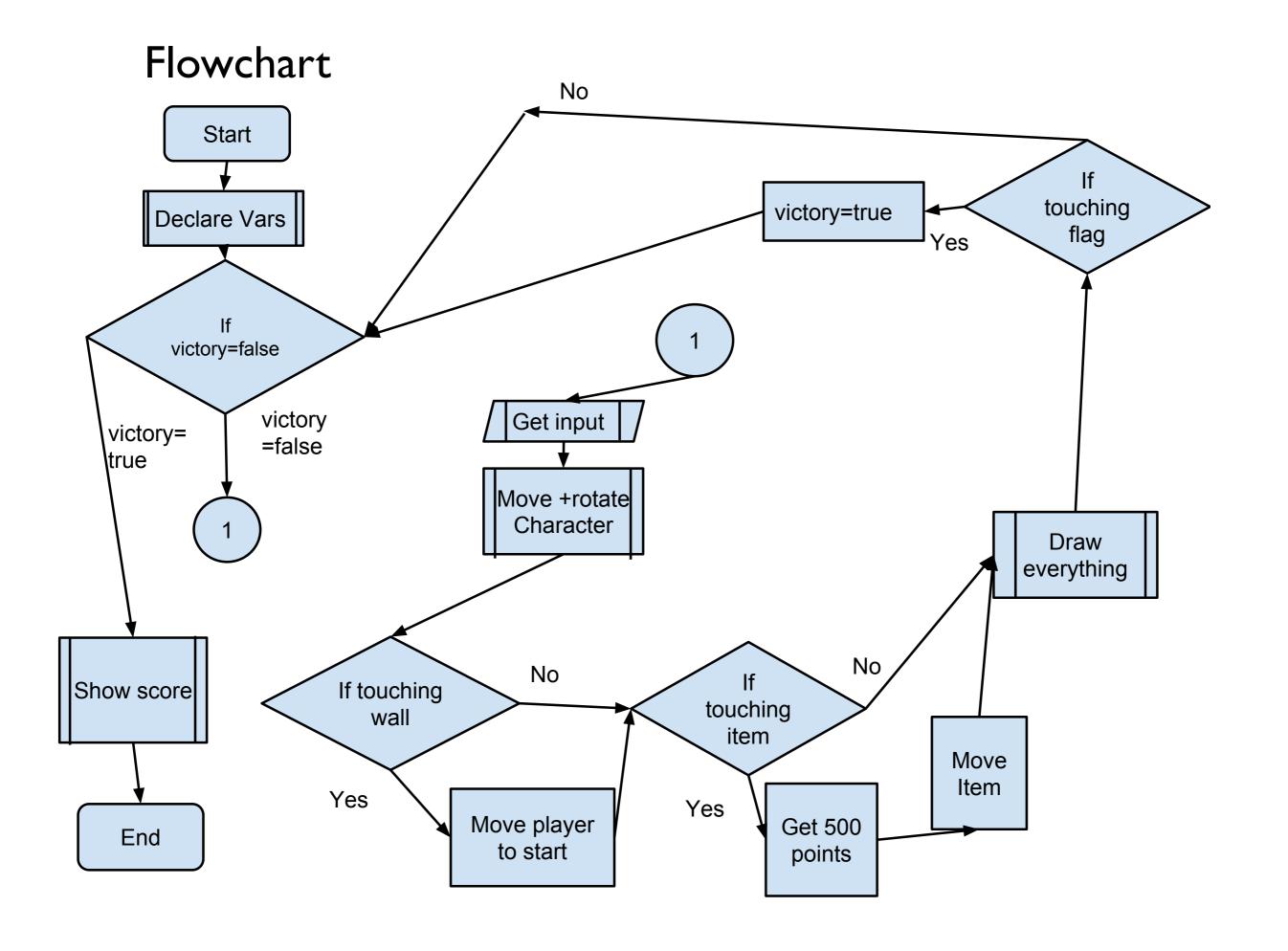
- Walls that are initialized from a text file
- An area around the maze that tells you your score
- Cherries (An item that gives you more points)

Pseudocode

1.Input keys

- 2. Rotate character accordingly
 - 3. Move character accordingly
- 4. If colliding with wall, move to start
- 5.If colliding with item, get 500 points & move item
 - 6.Draw everything
 - 7. If colliding with flags, victory=true
 - 8. If victory=true, show scores and close game

In the game.c file, there will be comments that show you where these events occur.



Flowchart Part 2 Move+rotate Draw Get Input Declare Vars Show score Character Everything Declare Img Draw Draw lf pressing Background Holders Background quitting Ν Rotate **Draw Score** Declare **Draw Player** left Quit Next... **Numbers** etc. Move Declare left Draw Item Wait 3 secs Walls pressing right Draw pressing Load Imgs Draw flag Background down Move right Get hi-Move Draw walls down scores Rotate right Rotate Draw score Draw hidown etc. scores pressing Apply all Wait 3 secs draws to Move screen gu Next... Stop! Rotate up

Development and testing

Things to test:

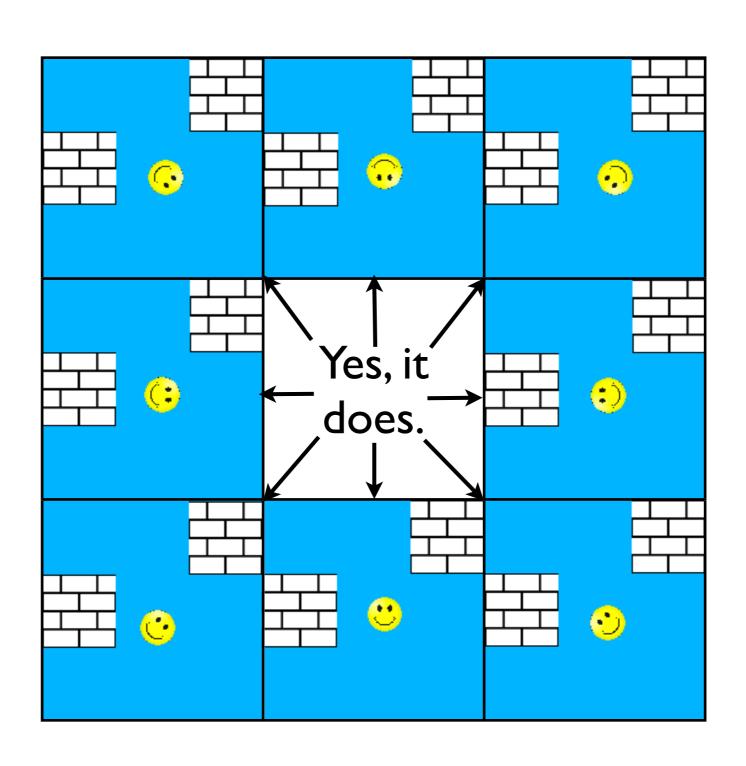
Does the character rotate?

Can you finish?

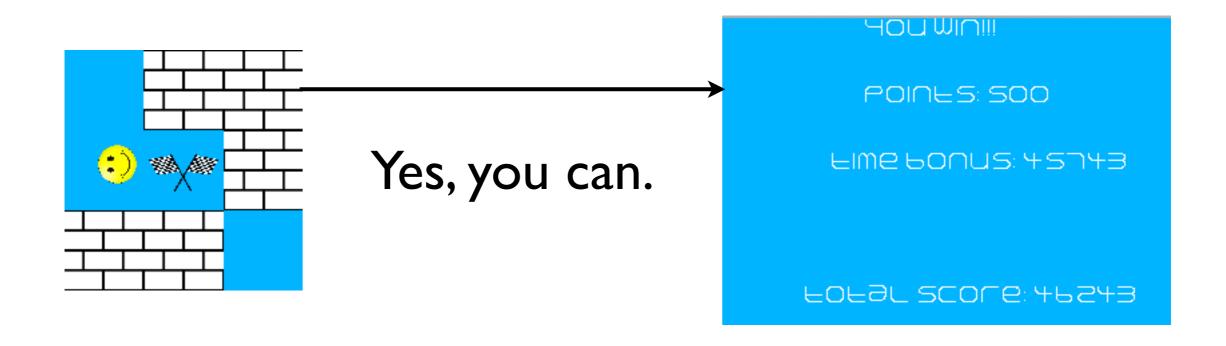
Does the hi-score table work?

Do walls send you back to the start?

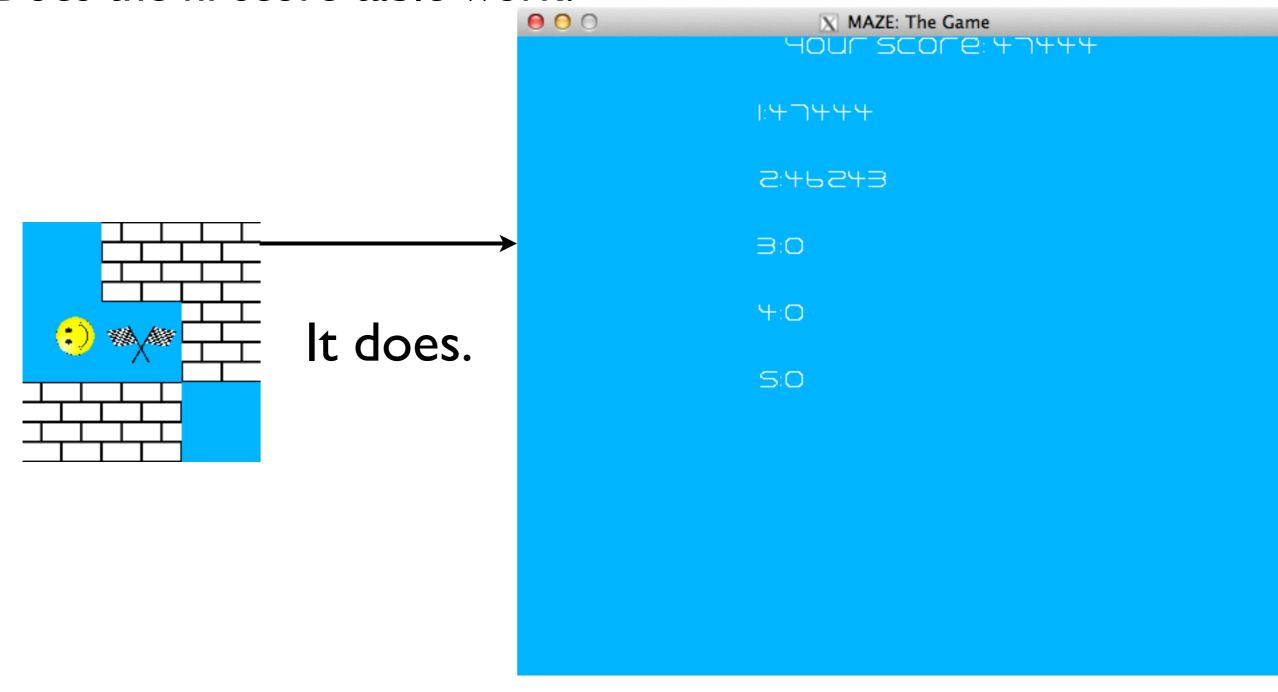
Evidence Does the character rotate?



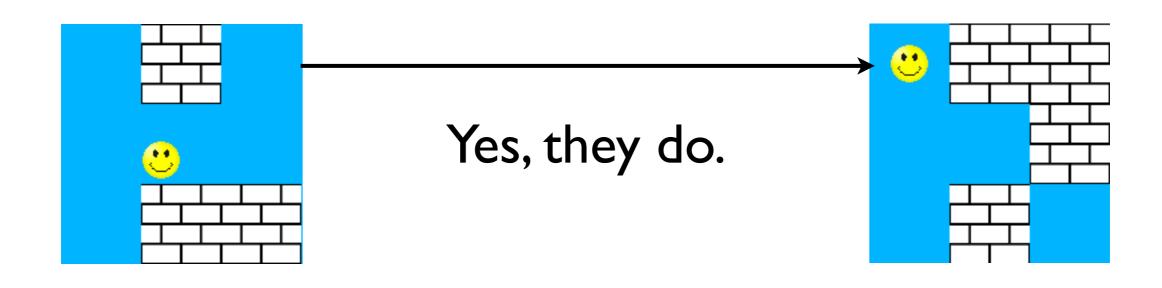
Evidence Can you finish?



Evidence Does the hi-score table work?



Evidence Do walls send you back to the start?



Evaluation

I enjoyed this task. It was quite easy, and very rewarding.