

## Instructions on How to Run Lab 1

Make sure you read the page at <http://www.cs.cmu.edu/~15110-f12/lab1/> BEFORE the lab.

### Goals:

- Introduce the students to using the computers in the lab
- Help them to solve Lightbot problems and to format a solution as a text file (they will have seen what Lightbot is in Wednesday's the lecture)

### Plan:

1. Make sure everyone can log in. If someone has major trouble, have them work with another person for this one time.
2. Have them go to the Web page and **right click** on the link in step 1 **to open a new window/tab** with the Lightbot rules for reference.
3. Solve Puzzle 1 together using the online game.
4. Once you do this show them how to create the text file with the solution and have them follow along and do the same thing. Tell them that if they get stuck, they should quietly lean over to a neighbor to see if they can help. If enough people are struggling, walk around to help and enlist the stronger students to help too.
5. Once Puzzle 1 is done, show them how to run the python format checker (the program that checks the format of their text file).
6. Once they have Puzzle 1 done, set them off on their own to do Puzzle 2. Tell them that they can talk to each other for help... this is ok for lab. In fact, force them to introduce themselves to their neighbors to break down the invisible walls.
7. Tell them that if they finish Puzzle 2, they can move on to Puzzle 3. But we expect them to finish Puzzle 2 at least.
8. In the last 5-10 minutes (depending on how good you think your section is), show them how to zip up their puzzle files and hand in.