Notes durring project development:

2016/12/31

Working on the MineSweeperRunner class, looking to get a system of drivers and stubs set up

Will probably use different batch files to run different groups of drivers and stubs, will keep all the drivers and stubs in the same package, so I can import them all at once and swap them out easily. Maybe I can have something in the compiler that changes them, as to make testing more automated. Also need to get my hands on that junit or something as to create testing classes.

Before all that though, need to get a basic setup made.

What the runner class is going to do, is drive the instance of minesweeper

Primary functions (taken from documentation)

* Prompts the user for info
  + This should be part of the gui file.
  + Uses MSData to contain it all
* Run the instance of MineSweeper
* Displays the finished screen using the GUI
  + A “current status” gameplay board will have to be taken from MineSweeper instance. Showing which bombs have been caught. This will be a map for the gui to deal with.
* A timer for the game will be run in MineSweeper – which will be returned and put in the end screen with the gui
* This time will be added to a file, with “highScores”
* The highScores will be a file in the same folder as MineSweeperRunner, which will be updated at the end of a game. The top 10(?) scores will be kept. The top 3 names will be presented (or maybe top 10 idk) when the user is prompted for data. This will be an array of strings that will be passed into the Gui method for user prompting.
* Repeats until the user says no. which will be part of the gui thing. Just a while loop I guess.

Noticed an issue, I don’t know how im going to be able to make the gui interchangable seemlessly. I think I could create something that navigates through a set of classes. But I wont bother with that for now. Needs stuff with classloader or reflections (neither of which I currently understand). Until then il make everything that isnt Runner generic, and just have Runner set the gui manually.

To do next

* Need to write MSData – will add stuff to it as the project continues.
* Need to write drivers for gui to have
  + promptUser
  + displayResult
* Need to write drivers for MineSweeperInstance to include
  + A constructor
  + Run

A way to make these “drivers” work, might be to to just have different batch files with different class paths to different driver source folders. These will basically be the same as the true source files, but will just be in different folders. This allows for automated testing of different files.

This will eventually be really useful for pre-determined games, and testing that their functionality remains consistent. Since the “gui” will just be a series of inputs, it will also just have pauses inbetween its inputs, which can surround information to be printed to the console. Or something. That’s for later.

Anyway, I need to finish the packages, and I need to create the drivers.

It tooks like the way to get the gui to “change” is to have a folder where the java files will drop into. To switch the gui you just switch the content in that folder. So all gui implementations will have identical file names, as well as an interface.

Signing off.

2017/01/01

Got all the file stuff lined up properly, turns out with class path you can actually just attach the “nozzle” to each file location and just compile it. I put all the class files into a class folder, because I heard that is good convention. I removed all the packages and imports, as they were useless. All the file structure is laid out, so I can move onto testing. The intial basic drivers seem functional. I will work on a better plan for the sequence of solving each module, including making test files and stuff in separate folders in their respecive places. The current skeletal driver is full functional and ready to be implemented with more specific drivers. Each update of a driver will take the OLD driver and put it into a subfolder, making the ORGINAL unchanged.

Next goals:

* Get a new plan created with outline of which modules to create
* Create test files to run said modules – do the first one initially
* Get the junit

Pushing to git.

Signing off.

2017/01/02

Looking to start with a plan of the modules to create -> maybe create a detailed plan of how I want to actually approach this whole project. Need to figure out where I can dissect stuff from my old code, and where I need to create new material.

TODO: Get MSMap made with a method that will read in a test map from a file. This will allow it to act as a driver early on to just have standard maps. We can worry about proper ones later.

Create 6 maps, easy medium hard and 3 custum.

Map selection has to be done through the console at compiling time, so have that as a method call to instance. Include 2 variables – testingMap boolean (if we are running a test map) set to true by doing a try catch with the call to index, if its an exception its set to false. Otherwise true. Then a variable called testMapName which is the paramater that is used.

Once that is done, we will have a relatively reliable driver for MSMap. After that, start work on MineSweeperInstance, getting the constructor set up properly and having run work.

Run calls the gui, so we will need to think of a way to make the gui have a set path of moves to make, which it will be its moveset. Maybe have it read in while its updating MSMap test, and then have that be put into instance, and have that be what it uses. Might need an incrementer to control flow, which can be used in a for or while loop in the driver for the gui.

This should be enough to have mineSweeperInstance fully running, once those are set up, we will run those against mineSweeperRunner. When those are done we can start substituting things in for proper methods.

End of the day. I got test batch files made for MSMap and MSData, and I reorganized the file structure in regards to testing. Java files will be kept in their respective files, with the testFile sitting right near them. However, the batch files and test class files and test text files will all be kept in their own subdirectory in a separate file structure. Those bat files are set up, and will allow for relatively easy testing and are reletively easy to set up.

Next set of things to do includes:

* Finishing testing MSMap
  + Need to make the 6 test files, decide on their lengths, and have them input. NOTE: the first line of the file is ignored, it is ment to be the data input for the file, read in during testing.
* Finish building MineSweeperInstance
  + That means il have to make the simulated gameplay in GUI, which will PROBABALY be a second line in each file… so that another line to be skipped NOTE: add the second skip line later.

Aim for those for now, think of where to go after that

Pushing to git.

Signing off.

2017/01/03

Started late today, cold as balls outside.

Things I gotta do today:

* Finish testing MSMap (as stated above)
* Finish building and testing MineSweeperInstance
* Need to change CellHold so that instead of a true/false boolean it is 1234 (0123?) where 1 refers to unvisited, 2 refers to visited, 3 refers to flagged as a bomb, and 4 refers to uncertain.
* Change EVERYTHING so it reflects the changes made in CellHold.

So I changed cellHolds varibale to cellStatus, and it doesn’t seem to be used anywhere, I spose itl pop up In further testing.

Redid the testing MSMap using @before and @after. Still need to create the testing files.

Branching into 2017/01/04

Ironed out the MSMap to work with the new implementation. Need to finish creating files

Important to NOT include filename in the test files, and make sure there is a space after the last number

Next thing to do – make LEGIT tests. Maybe cheat and use old code to generate random sets…

Remember – bombs are 9, empty spaces are 0 and 1-8 are the possible numbers.

Decide on the easy, medium, hard standards.

Easy – 9 9 10

Medium – 16 16 40

Hard – 25 25 90

Custum will probably just be for when its actually randomly made.

3 tests for both easy medium and hard all pass the test

Also included a maping of all the coordinates for bombs at the top of each file, for testing purposes with the gui.

Took a few days to get here. Should NOT have taken this long.

Need to:

* go and finish building and testing MineSweeperInstance
* Need to get the driver for gui set up
* maybe write the code for the actualy MSMap method. Its not like its hard….
* Keep stuff moving faster. Maybe I need to stay up late tonight.

Anyway this is 2017/01/05, signing off for now. Pushing to git. New page new notes.