1. Using the MRI dataset, write a program that produces a contour line using the basic marching squares algorithm:

https://en.wikipedia.org/wiki/Marching_squares#Basic_algorithm

- You can download the data here: http://cs.appstate.edu/~rmp/cs5720/mri.zip
- 3. The ZIP contains PGM files, one for each slice. The PGM images contain a simple text format that you can read in any language: https://en.wikipedia.org/wiki/Netpbm_format#PGM_example
- 4. As before, provide a bash script that executes it with the path to the CSV file provided on the command line. Usage should be like this:

The bash script runs your program using the provided file. For example, if you write a Python program the bash script might look like this:

If you decide to use R, it might look like this:

5. The program should produce a PNG with the name of the second argument: fig_mri_contour.png in the example above.

Zip your program and submit it to asulearn.

It should look a lot like this:

