

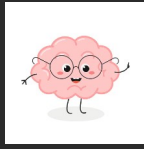
"""

```
if __name__ == '__main__':  
    pass
```

The Ultimate CS101 Problem Tier List

(all assignments and some notable APTs)

S tier
took several days and on average 10 espressos to complete



Assignment 5: Clever hangman was frustrating to the user as well as the coder! Learned about greedy algorithms and dictionaries. I had fun playing this version of hangman after.



Assignment 6: I learned different ways to index through a dictionary. I rewrote many lines of code for MovieReader, which I got stuck on but eventually solved.

A tier
required many mugs of coffee



Assignment 3: I commented and uncommented a lot of lines as I worked through the problem. Required more thinking than previous assignments, but decoding words was fun!



Assignment 4: Really cool to see my game come together. Learned the importance of planning before coding, which saved me a lot of debugging time.

B tier
slightly stressful



Assignment 1: I drew a lot of face shapes on grid paper before starting the code. Implementing functions within functions helped solidify textbook theory.

Pangram APT: I had trouble passing the last test case to account for extra 0s, but eventually I solved it using 2 dictionaries and a list. Reminded me to not dwell too much on one method!

EatDrink APT: I had to use the sorted method, and this APT really helped me review how the order of writing sort functions affects the end result.

C tier
no caffeine needed



Assignment 0: Took a bit of time, but the tasks themselves weren't hard. Using pictures to give instructions to the bot is fun and easy to understand for beginners!



Assignment 2: Helped me review Turtle functions, random, range, for loops. Visual aspect made it different and interesting to code.

LastNameFirst APT: This was one of those problems that wasn't hard to understand, but actually writing the code required much thinking.

D tier
green passes on first try!

ReadQuizScores APT: Needed to know mathematical operators and if statements. One of the first APTs that I completed in under 20 minutes and passed on first try!

DNACgratio APT: I felt confident doing this APT. After solving this I think I really understood string methods well.

ScoreIt APT: This APT was useful for reviewing range and max. I used a parallel list and challenged myself to shorten the code as much as possible.

CarrotBoxes APT: I thought this was going to be difficult at first, but after going through each example case I found a simple solution that used only 5 lines of code.