

HW2

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Files:

I created 5 files:

main.py is the entry point to the application

test.py is where I have my unit tests

cfgToCnfBuilder.py is where I convert the CFG grammar to CNF

cky.py is where I implement the CKY algorithm

productionBuilder.py is where I build productions in the converter

Insights:

I underestimated how difficult this assignment would be. I need to practice more in Python and NLTK.

Problems:

I did not successfully complete the parsing portion of the CYK algorithm. My work can be found in cykTree.py, I attempted to start at the beginning node and work my way through each item. The problem I ran into was when there were multiple productions found - I didn't have a good strategy to copy the existing sentence and move forward. I fault myself for going down several wrong paths. I am printing off just one parse and that parse is not properly formatted with parenthesis. I was able to identify how many total parses were present.

I also didn't get the sentences to print off in the correct format. I spent most of time getting the parsing correct, I did not allocate enough time for me to properly finish the formatting.