Journal Report 15

02/10/20-02/17/20
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Daily Log

Monday, February 10

Isolated a sentence and a set of annotations by hand. Created and started debugging a new code segment to take a sentence, parse it for syntax, and process its annotations into a semantic tree.

Tuesday, February 11

Finished working out the debugging in the method taking annotations to semantic trees, corrected erroneous processing of annotation data.

Thursday, February 13

Watched presentations for part of class, and started to reformat my personal annotations from November/December into the same format.

Timeline

Date	Goal	Met
1/27	Pending annotations, get everything up until the annotations step to work with olympiad problems, and work out other cosmetic details.	Yes! My snippet can output syntax parses for individual problems now, but I won't do local problem access until I have to run it multiple times with the tag model.
2/3	Assuming I have annotation data, run it through the parser to check it works, and format olympiad problems in that method. Else, begin trial and error process.	Couldn't do a lot of this because of presentations, but I will do this starting next week and into the week after.
2/10	Run annotation data combined with problems through code and turn them into semantic trees, reformat my annotated problems.	Finished (with a questionable level of success?), still working on reformatting my annotated olympiad problems.
2/17	Finalize annotation data for the olympiad problems and ensure that they produce valid, connected semantic trees.	N/A
2/24	Start training the Naive Tag Model with olympiad problems, fix any issues that may arise.	N/A

Reflection

The case I worked with this week as the subject of my annotation debugging was the following:

sentence: In the figure above, line AB, line CD, and line EF intersect at P.
annotations: IsLine@5(line@6), IsLine@8(line@9), IsLine@12(line@13), CC@11(line@6, line@9), CC@11(line@6, line@13), IntersectAt@14(line@6, point@16)

After finishing debugging, the method outputs the following for the tree:

tree: [IsLine@5[line]($AB:line@6[AB]), IsLine@8[line]($CD:line@9[CD]), IsLine@12[line]($EF:line@13[EF]), CC@11[and]($AB:line@6[AB], $CD:line@9[CD]), CC@11[and]($AB:line@6[AB], $EF:line@13[EF]), IntersectAt@14[intersect]($AB:line@6[AB], $P:point@16[P])]

This formatting is sort of weird, which may be due to trying to turn the Semantic Tree Nodes that are supposed to be returned into strings, but I think the method does the job. Each element (a relation) is an edge between two objects, each of which has a type and a name. Because of this, I think my olympiad problems may have issues when referring to more abstract objects or objects that are defined based on others (i.e. the circumcircle of ABC, for instance), but this might be okay. We'll see how this goes in the next few weeks!