This was another challenge I picked up on that was related to the duties of my position but was not explicitly asked of me. I had access to data from a client and I knew that there could be something to derive from it if I explored and thought about it enough.

I had experience understanding how water service lines known as “party lines” worked from separate field experience, and I was curious if there was a way to use the data in GIS as is with a little clever thinking to make a best guess on which ones were and were not party lines. Since there were about 85,000 lines/features, I knew doing this manually was not an option.

My endeavor was successful and my script was able to complete this task for all **85,000 lines in a little over 10 hours**. While there may still be room for efficiency gains, this is **exponentially less** than the amount of time and effort that would be necessary to execute this process manually.

While this was done in more of a scientific computing context, this ad hoc solution can easily make the transition into a formalized tool within the ArcMap environment.