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APCS Reflection

While working on this project I learned a lot about using GitHub, Networking, and implementing GridWorld.

We began our project by implementing a three package MVC model. However, when I began implementing GridWorld, I initially decided to use JFrames and embedded the BoundedGrid. Later we realize that we could just extend GridWorld and we ended up combining our View and the Controller into one class.

I started off knowing very little about GitHub, last time I attempted to use GitHub I had no idea what any of the terminology even meant. Tanmay helped me a lot being more seasoned with the tool than I was. I learned how the app actually allowed multiple users to collaborate and work on the same files at the same time. I learned how to properly push files directly through eclipse in a way that it would be easier. I also learned when and how a conflict occurred and how to resolve them.

While I was not very involved in the process of developing the networking between computers, I did a lot of research and consistently looked at the changes in the code to figure out how exactly information was being passed between the two computers. I learned about Transmission Control Protocol (TCP) connections as well as User Datagram Protocol (UDP) and how packets of information would be sent across differently between the two connections. We utilized a TCP connection using the Socket class to connect the two computers and I remember in the earlier stages we also utilized a UDP packet to auto discover other devices on the local network. Eventually we ended up only using the TCP connection as this was the most efficient way of sending information across the network.