

Week 1 Work Summary:

Adish:

My first job this week was creating the initial structure of our entire project directory. This meant creating the basic Makefile, importing all the given cs225 code for PNG, Graph and Edge, and finally creating our reddit projects' cpp and h file. I then worked on creating the initial BFS traversal implementation for our graph using what I had learned from the lecture. This was later altered and refined for the purpose of our project.

Mike:

I changed the Graph.cpp and Graph.h files to remove any unnecessary functions that were relevant to the lab but not our project. I started implementing an algorithm to find all the strongly connected components in a graph. My implementation will be using Tarjan's Algorithm as it requires traversing through the graph 1 time with DFS rather than 2 times when using Kosaraju's Algorithm. The runtime however, comes at the cost of using more memory.

Yash:

I wrote the reddit class constructor and a BFS implementation that returns the shortest path between two given vertices. I also collaborated on the iterative deepening search function.

John:

I looked into the tree traversal methods we covered in class. Using the idea of BFS & DFS, I started writing the algorithm for iterative deepening search that we chose to implement for one of the uncovered topics. This algorithm is very similar to DFS but has a limit to how deep we can traverse the tree, so it helps find if certain nodes are closely related or not.