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EE355

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Project Phase 2 – README

In Part 1 of this phase, I was able to complete it without any issues by doing mainly the same thing as I did in the search function, but by using a nested if statement to see if the second person exists after confirming that the first one does as well. After the second person was added, the program checks to see if the second person was already friends with the first person. If they were, then it redirects them to a message that says they are already friends and to return to main menu. The program also also checks if the same person was added together, as in person 1 was added with person 1. If this happens, the program prints a message saying that the same person can not be added together and redirects them to the main menu as well. Otherwise, if the two people can be added without issues, then the program prints the two connections using print_person().

In Part 2 of this phase, I created a member function in the Person class to add a new friend to the vector of type Person*. This function just consists of a vector push_back function to add the friend into the vector. I could have chosen to check if the two people were friends with each other already in this function, but I decided not to as I did not want second makeFriend() to keep looping through the vector even if the first one already saw that they were already friends. The Connect option in network.cpp would take care of this, as we see in Part 1.

In Part 3 of this phase, I decided to add a uniqueld string variable into the Person class as a private variable so the unique ID of each person is held by them. This way, when the friends need to be printed out, the program simply calls for the uniqueld variable instead of needing to continue to call the codeName function in misc.h. When creating the codeName function, I used one resource online to find ways to remove spaces in the concatenated string of first and last name. I used the following website to get an idea of how to remove spaces without doing it the brute force way of looping multiple times:

https://www.geeksforgeeks.org/remove-spaces-from-a-given-string/

In Part 4 of this phase, to print out the friends, I created another member function in the Person class that prints out the friends unique id of the person calling the function. Then in print_person, the function is called to take care of that printing. I do this just to make the code appear cleaner and more readable.