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To run this file:

1. I am using Anaconda (Python 3)
2. Run the command “pip install tabulate” so import tabulate works
3. To be safe, also run “pip install numpy” so import numpy works
4. Finally run “python dvr.py”
    a. this project does not require a makefile and should be simple to run

What will be displayed:

1. Prompt will ask for a file name
2. Enter the filename the nodes are being stored in.
    a. The file extension must be .txt
        i. E.g. in my folder there is “nodes.txt”. So to run from the example file you would enter “nodes” in the prompt
3. Prompt will then display “Node x to node y has a link of z”
    a. Nodes that are unable to reach each other are initially set to infinity rather than 16
        i. Float(“inf”) seemed more fitting than having it set to 16
4. Prompt will then ask whether you would like to see the updates in a step by step matter or in a continuous fashion until the nodes reach a stable state
5. Enter “step” to go step by step
    a. The prompt will ask you whether or not you wish to continue
        i. To continue enter “next” (case sensitive)
        ii. If you press anything other than “next” the program will close
        iii. Once the links are in a stable state, the prompt will state it and end the program
6. Enter “stable” to go in a continuous fashion until the nodes reach a stable state
    a. The prompt will run continuously until the nodes are in a stable matter
    b. The execution time will then be displayed at the end
        i. “Total execution time was: ____
        ii. The prompt will state that the links are stable and end the program
7. The program does not give the option to update the link
    a. I wasn’t able to figure it out without crashing my program so I took it out entirely

“Your write-up should follow the same rules as with lab 1. In addition, the writeup should include the observations discussed above. In each case, include a comment – at least one sentence, on what you conclude from the observation.”

I wasn’t entirely sure what was meant by this and did my best to include my comments in the writeup above. Hopefully what I have written is satisfactory.