# ANC Assessed Exercise

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**Status Report:**

My program for DVRouting can accomplish the following:

- Allow a user to input a human-readable text file of a graph and build it
- Compute routing tables for a preset number of exchanges or until stability is achieved
- Preset any link to fail after a given exchange, or preset any link to change cost after a given exchange
- Trace the routing table of a given node for all exchanges in an easily-viewable manner
- Engage a split-horizon capability on command to ease slow convergence

However, regarding these in respect to the criteria given in the handout, it operates under these limitations, and these I things I would rectify if I had the time:

- Only accepts one type of ridigly-formatted input file
- Accuracy of stability calculation depends on the graph
- Only allows viewing of one node's routing table at a time, and cannot specify iterations (shows it for all exchanges)
- Can only set one link to fail and one link to change cost per execution
- Split-horizon functionality only works in most cases, and not for all graphs

Ideally, given enough time to improve the program, and a bit more freedom with what I could use, a proper, interact-able graphical user interface would solve most of the output problems, and not having to use command-line flags it definitely easier for novice users, and it would also allow them to better visualise the graph as it builds.