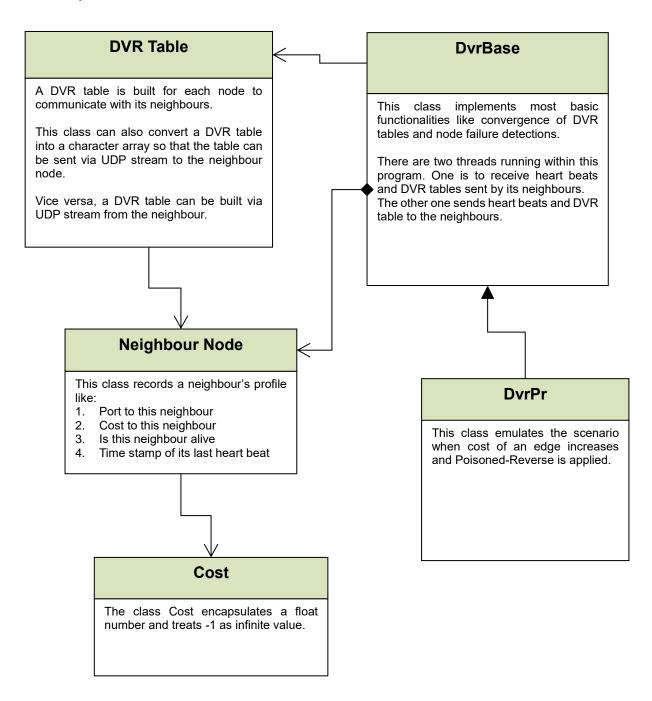
Emulation of Distance Vector Routing

My program of this emulation has implemented the following functionalities.

- 1. Convergence of DVR tables when the emulated network achieves stable status.
- 2. Detection of node recoveries and failures of the network
- 3. Poisoned Reverse mechanism to partly solve the Count-to-Infinity problem when cost of an edge in the network increases tremendously.

Classes Implemented

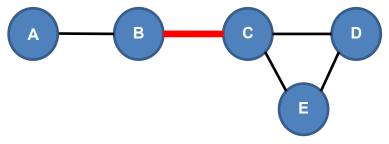


Program output example



Problems Unsolved

1. Count-to-Infinity problem cannot be solved by Poisoned Reverse if the edge of increased cost is the only one choice to route to the destination. For example, Poisoned Reverse will not work if the cost between B and C increases.



2. There will be Count-to-Infinity problems if the topology of network is partitioned. Though this scenario is NOT required to be handled in this assignment, it is surely an issue.