Distance Vector Routing

Readme file

CS 3251

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1. All files:
    a. Pair.java: A customized tuple data structure with three integer fields: the next hop's router number, cost to that hop, and the number of remaining hops to the final destination.
    b. Router.java: The class represents routers. A Router contains:
        i. routerNumber: the router number for this router.
        ii. table: the distance vector table.
        iii. size: the total number of routers in this network.
        iv. neighbors: neighbor routers and the edge costs to these neighbors.
        v. vector_from_neighbors: received vector from neighbors.
    c. Test.java: The main method.
    d. t3.txt: command 1 file for sample.txt
    e. c3.txt: command 2 file for sample.txt
    f. README.pdf: the required read me file.
    g. sample.txt: sample output.
2. Detailed instruction for compiling and running
    a. To compile, put all three java files in the same directory then use 'javac *.java' to compile.
    b. To run, use java Test to run. First input the command one, for example: 'command1.txt', then input the second command('command2.txt'), and finally, input '1' or '0' to choose the report mode.
    c. After typed in 3 valid commands, the program will begin running. Three different output files will be generated: Output_basic.txt, Output_split.txt, Output_poison.txt. **Please refer these .txt files as the final result**, in other words, you may ignore the output in console.
3. Any known bugs or limitations:
   N/A