

JAVA 2

INDIVIDUAL ASSIGNMENT- HELP THE NURSE

The Problem

Mary is the only nurse in a rural community. She must travel many miles between patients and this leaves her exhausted most days. It would greatly help her to have a tool that would tell her the shortest route among the patients she must visit. Mary never knows how many patients she must visit but is always given the distances between patients. Mary's hospital has tried to be helpful by giving her a list like this:

Mary -> Henry = 4

Mary -> Jane = 6

Mary -> Quinn = 20

Henry -> Jane = 10

Quinn -> Jane = 8

The list is in the form:

Person A -> Person B = Distance between Person A and Person B

* If a distance is not given between patients, it is assumed that it is not possible to commute between them.

* The list is supplied to Mary in a .txt file called **patientList.txt**.

Your Task

- Use the **patientList.txt** file given by the hospital, to find the shortest route to the patients that Mary must visit.
- Your solution should cater for ***n*** number of patients.
- Your application should have a GUI. The GUI will be used for loading the file and showing the shortest route.
- Your user defined variables, functions, classes, and packages should end with your initials.
- Submit your code, and jar file on my.htu.edu