

HELP THE NURSE HELP DOC

This document gives an explanation of what goes on while trying to find the shortest path for Nurse Mary. It also gives guidance if you decide to add more patients in future.

Hospital List Given:

Mary -> Henry = 4

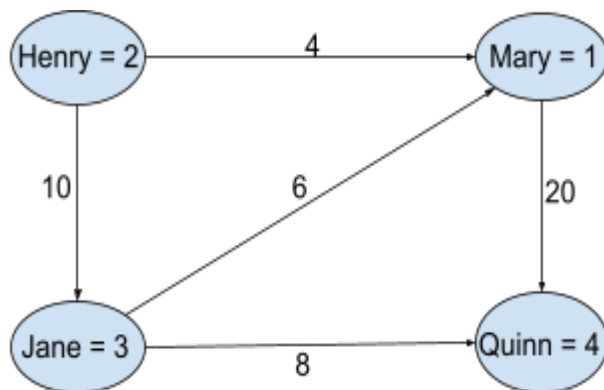
Mary -> Jane = 6

Mary -> Quinn = 20

Henry -> Jane = 10

Quinn -> Jane = 8

Graph created from Hospital List:



Note that the graph above:

Mary = 1

Henry = 2

Jane = 3

Quinn = 4

The weight(edges) above contains the distance from each patient analyzed by their path from each other.

Matrix from Hospital List:

	1	2	3	4
1	0	4	6	20
2	4	0	10	0
3	6	10	0	8
4	20	0	8	0

The matrix shows the connection between the distances.

Adjacency List from Matrix:

1	2	4
1	3	6
1	4	20
2	3	10
3	4	8

Shortest Path: This shows that Mary will visit Henry, then Jane, then Quinn.

New Patients: To add new patients, you can add a new file.