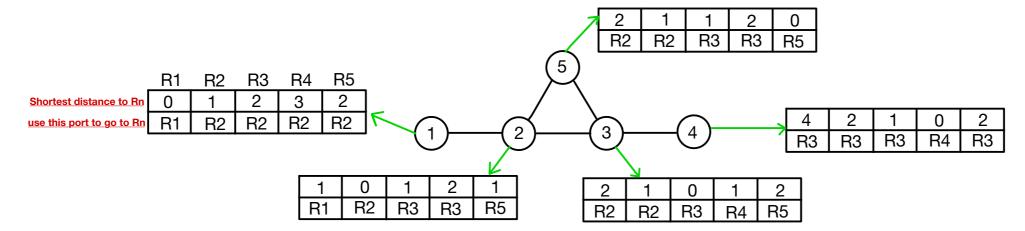
Assignment 2 - PASSING THE MESSAGE

-Yixi Rao u6826541

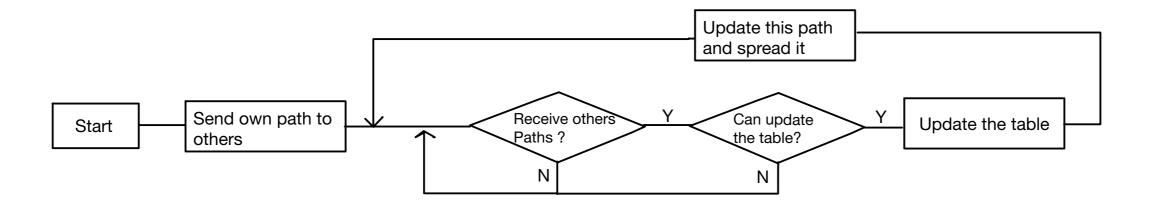
Routing table & Finding the shortest path & flow diagram

1. Routing table: Table example

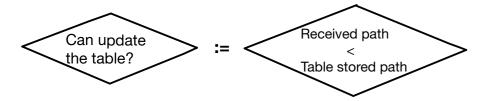


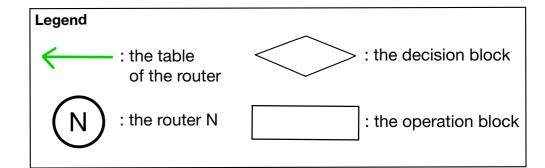
2. How to find the shortest path

2.1 flow diagram



2.2 when can update the table?





2.3 example: router 1 view of using the Dijkstra algorithm

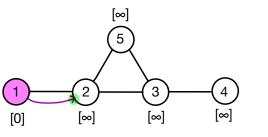


Figure 1 path: (1)

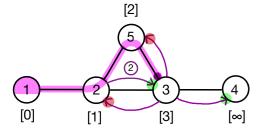


Figure 4 path: (1) -> (2) -> (5) -> (3) (1) -> (2)

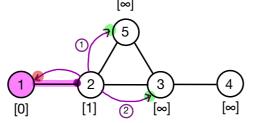
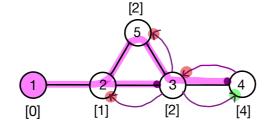


Figure 2 path: 1 -> 2 1 -> 2



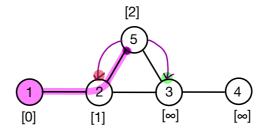


Figure 3 path: 1 -> 2 -> 5 1 -> 2

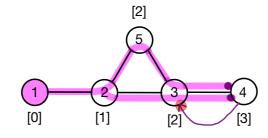
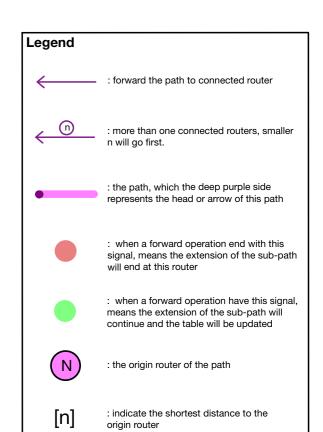
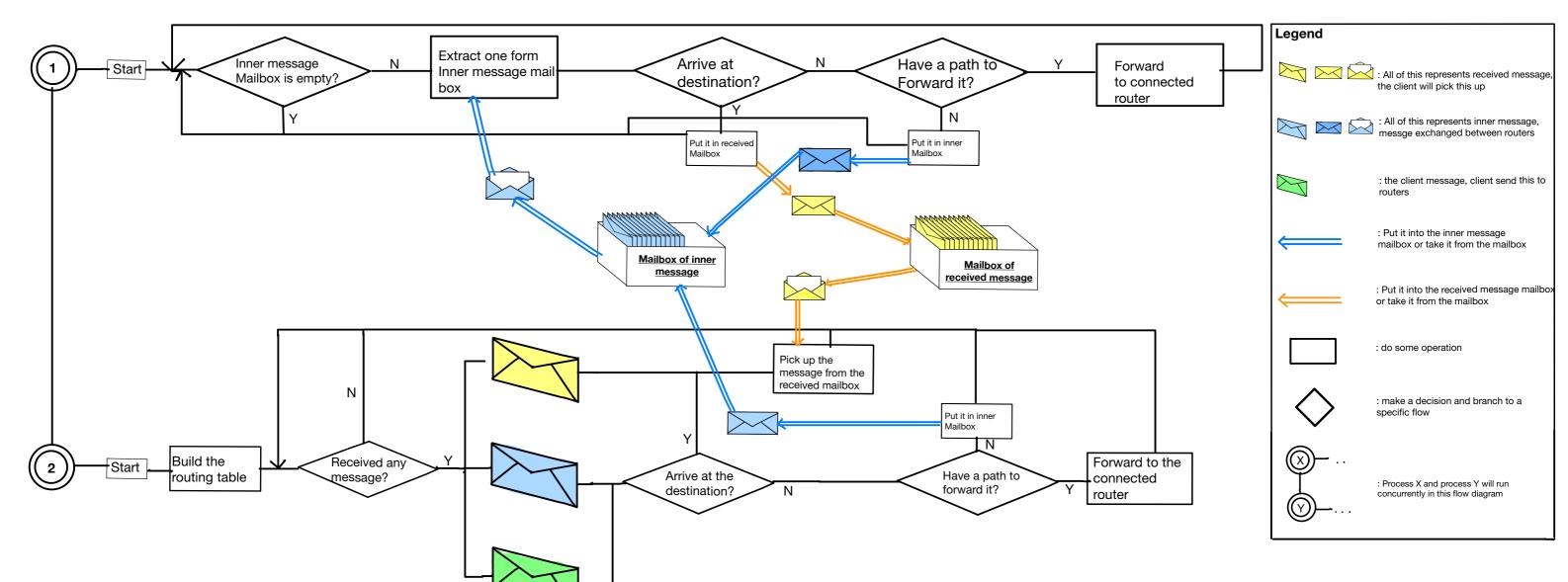


Figure 6 path: ① -> ② -> ⑤ -> ③ -> ④
① -> ② -> ③ -> ④



3. The process flow diagram of whole program



4. Reference

Algorithms idea: https://blog.csdn.net/qq_35644234/article/details/60870719

 $\underline{\text{https://blog.csdn.net/mengxiang0000000/article/details/50421243}}$