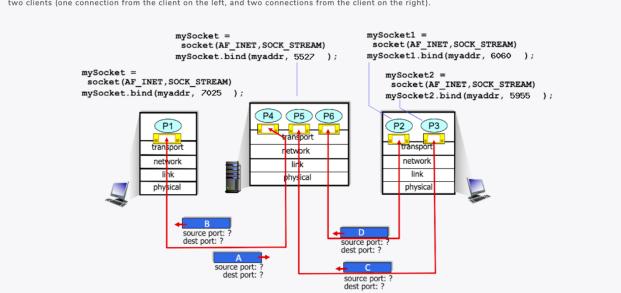
https://gaia.cs.umass.edu/kurose ross/interactive/TCP Mux Demux.php

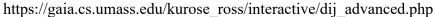
TCP MULTIPLEXING AND DEMULTIPLEXING

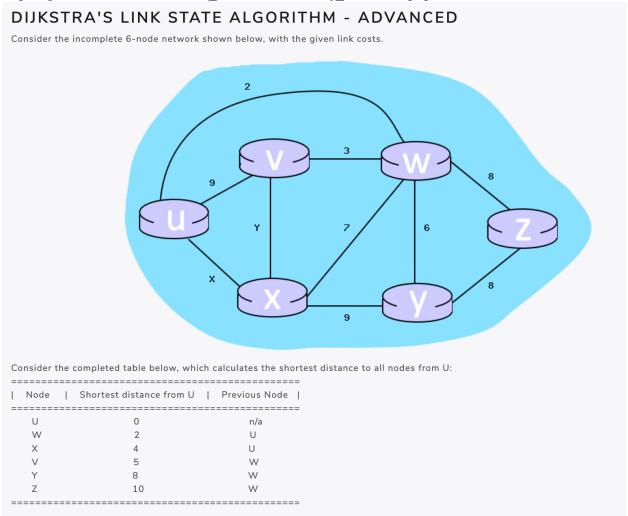
In the scenario below, the left and right TCP clients communicate with a TCP server using TCP sockets. The Python code used to create a single welcoming socket in the server is shown in the figure (the welcoming socket itself is not shown graphically); code is also shown for the client sockets as well. The three sockets shown in server were created as a result of the server accepting connection requests on this welcoming socket from the two clients (one connection from the client on the left, and two connections from the client on the right).



Questions:

- 1). What is the *source* port # for packet A? Ans: 7025
- 2). What is the destination port # for packet A? Ans: 5527
- 3). What is the *source* port # for packet B? Ans: 5527
- 4). What is the *destination* port # for packet B? Ans: 7025
- 5). What is the *source* port # for packet D? Ans: 6060
- 6). What is the destination port # for packet D? Ans: 5527
- 7). What is the *source* port # for packet C? Ans: 5955
- 8). What is the destination port # for packet C? Ans: 5527

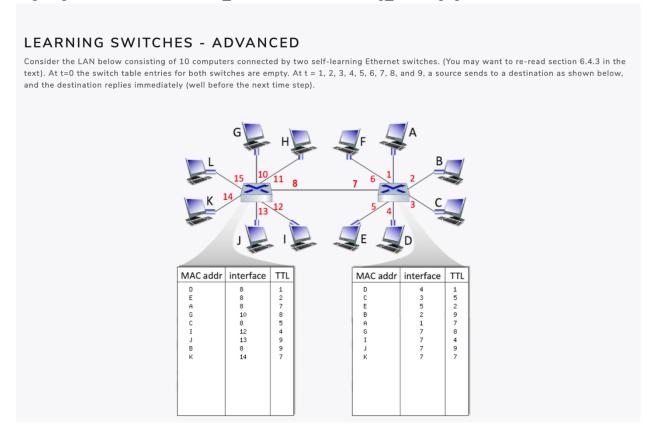




Questions:

- 1). For link X, what is the cost associated with this link? If the answer can't be determined given the information, respond with 'n/a.' Ans: 4
- 2). For link Y, what is the cost associated with this link? If the answer can't be determined given the information, respond with 'n/a.' Ans: n/a

https://gaia.cs.umass.edu/kurose_ross/interactive/learning_switch.php



Questions:

- 1). At t=6, what two nodes communicated? Write your answer in alphabetical order as x,y (If there is only enough information for 1 node, write that, and if there's no information, write 'n/a')

 Ans: n/a
- 2). At t=4, what two nodes communicated? Write your answer in alphabetical order as x,y (If there is only enough information for 1 node, write that, and if there's no information, write 'n/a')

 Ans: I
- 3). At t=9, what two nodes communicated? Write your answer in alphabetical order as x,y (If there is only enough information for 1 node, write that, and if there's no information, write 'n/a')

 Ans: B, J
- 4). At t=8, what two nodes communicated? Write your answer in alphabetical order as x,y (If there is only enough information for 1 node, write that, and if there's no information, write 'n/a')

 Ans: G