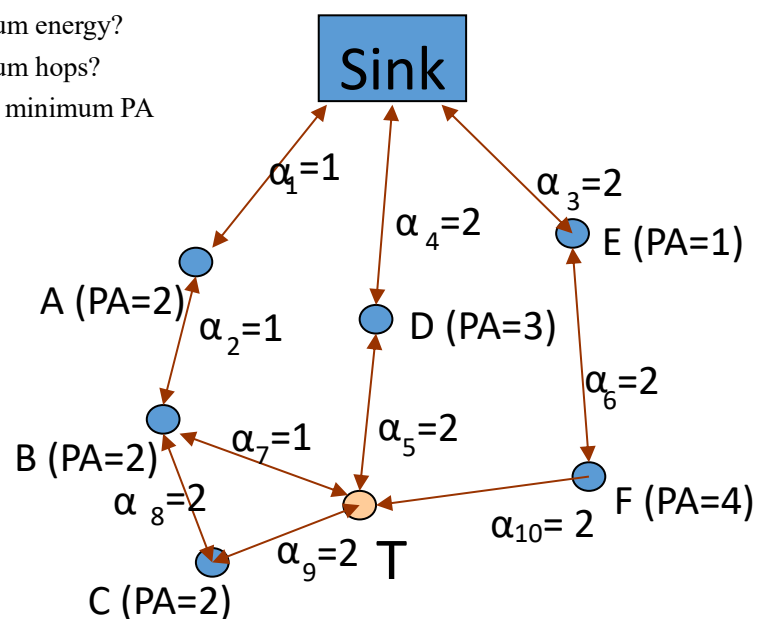


Homework 8

Due at the beginning of class, 11/30/2022

1. (15) What is network topology? List four common LAN topologies and briefly describe their methods of operation.
2. (15) List and briefly define the services provided by LLC?
3. (15) What are the differences between LLC and HDLC?
4. (20) What are the key requirements for a routing function of a packet-switching network? List the four routing strategies.
5. (35) Given the wireless sensor network below, please answer the questions based on energy efficient principle.
 - a. Give all the routes from sink to T
 - b. Use maximum PA approach to find the route
 - c. What is the route that has minimum energy?
 - d. What is the route that has minimum hops?
 - e. Find the route that has maximum minimum PA



6. (Extra 10) Join the discussion of **Cyber Security** on Blackboard. Attach only the screenshot of your answer from Blackboard.