CS3.301: Operating Systems and Networks

IIIT Hyderabad

Quiz 9

1. Explain why the FIFO packet scheduling algorithm fails to provide good service for diverse applications.
2. Explain the purpose of the leaky bucket algorithm. What will happen if you do not implement a leaky bucket algorithm?
3. Explain “network layer deals with end-to-end transmission”.
4. Give two example applications where connection-oriented service is appropriate. Now, give two examples where connection-less service is best.
5. Explain the issues of round-robin fair queuing packet scheduling algorithm. Discuss how a byte-by-byte round-robin improves the performance over fair queuing packet scheduling algorithm.
6. Consider the following network. Distance vector routing is used and the following vectors have just come in to router C; from B: (5,0,8,1,6,2); from D: (16,12,6,0,9,10); from E (7,6,3,9,0,4). The cost of the links from C to B, D, and E, are 6, 3 and 5 respectively. What is C’s new routing table?