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Jon Turner

Review Questions 9

Vour	Name

Please print out this form (two-sided, if you can) and write your answers *legibly* in the spaces provided. If you can't write legibly, type.

1. Consider a node *A* in a BitTorrent session with neighbors *B*, *C* and *D*. Assume that *A* has no chunks of the file yet, *B* has chunks 1, 3 and 7, *C* has chunks 3, 4 and 5 and *D* has chunks 3, 5 and 7. Which chunks would *A* request first? Why?

2. In a circular DHT, what are the advantages of having lots of shortcut routes? What are the drawbacks?

3. Consider a circular DHT with shortcuts in which all packets are sent using UDP. In such a DHT, a server that leaves the DHT can leave behind "dangling routes" (that is entries in other servers' routing table that point to the now-departed server). The presence of dangling routes can cause user requests to be lost. Describe two distinct ways that the DHT might address this problem.