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**Chapter 2 Application Layer**

**Homework 3**

1. Consider distributing a file of ***F*** = 20 Gbits to ***N*** peers. The server has an upload rate of ***us*** = 40 Mbps, and each peer has a download rate of ***di*** = 2 Mbps and an upload rate of ***uc***. For N = 10, 100, and 1000 and u = 500 Kbps and 2 Mbps, prepare a chart giving the minimum distribution time for each of the combinations of N and u for both client-server and peer-to-peer distribution.