

6. P2P. A server distributes a file with the size of 10^9 bytes to n hosts. The upload rate of the server is 3.5 Mbps. The i -th host ($i = 1, 2, \dots, n$) has a download rate of $0.5i$ Mbps. For all hosts, the upload rate is 1 Mbps. Calculate the minimum distribution time as a function of n for P2P distribution and client-server distribution, and plot the two curves. ($n = 1, 2, \dots, 100$). You should submit your code if you did any programming to complete this task.