Quiz 5

Due Apr 7 at 2:15pm **Points** 6 **Questions** 2
Available Apr 7 at 2pm - May 3 at 9:15am **Time Limit** 15 Minutes

Instructions

Please provide as many details as possible, so we may give your partial credits (in case the final answer is not correct).

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	15 minutes	6 out of 6

Correct answers are hidden.

Score for this quiz: **6** out of 6
Submitted Apr 7 at 2:25pm
This attempt took 15 minutes.

Question 1 — 3 / 3 pts

Alice optimistically un-chokes Bob and provides file chunks to him for a 30 seconds interval. Will Bob necessarily return the favor and provide chunks to Alice in this same interval? Yes or No? Give reasons.

Your Answer:

No, Bob is not necessarily obligated to return the favour and provide file chunks to Alice in the same interval just because Alice un-choked him and provided chunks to him.

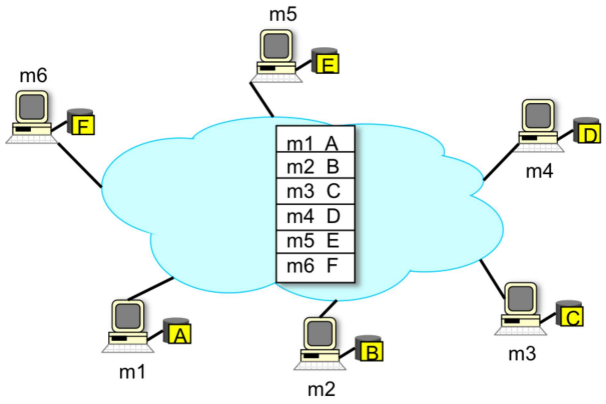
In a P2P sharing network, un-choking refers to allowing a peer or a node to download file chunks from another peer. However, it is not necessary

for the receiving peer to provide file chunks back (could also be considered as seeding). Since the decision to send files is based on the receiver's algorithm or policy, this could be determined by multiple factors like the bandwidth or even the number of connections.

Question 2

3 / 3 pts

Given a Napster network as shown in the figure below, with six peers and one centralized server maintaining the content list. When peer m4 looks for a content A, describe the process how m4 searches and downloads the content A.



Your Answer:

Typically in a Napster network, when a peer such as m4 searches for content in this case "content - a" these steps are typically followed.

- Query to the Centralised Server: The node m4 in this case sends a query to the centralised server, requesting information about "content - a".
- Response from Centralised Server: The centralised server responds back to the query by sending a list of peers or nodes that have requested for content - a. This typically includes the IP address.
- Connecting to the peers: The node m4 then connects to one or more nodes on the list using a P2P file-sharing protocol. The more devices it's connected the faster it can download.
- Downloading the Content: As the node m4 receives the requested parts of the content item from each peer, it combines them into a single file, completing the download process

Quiz Score: **6** out of 6