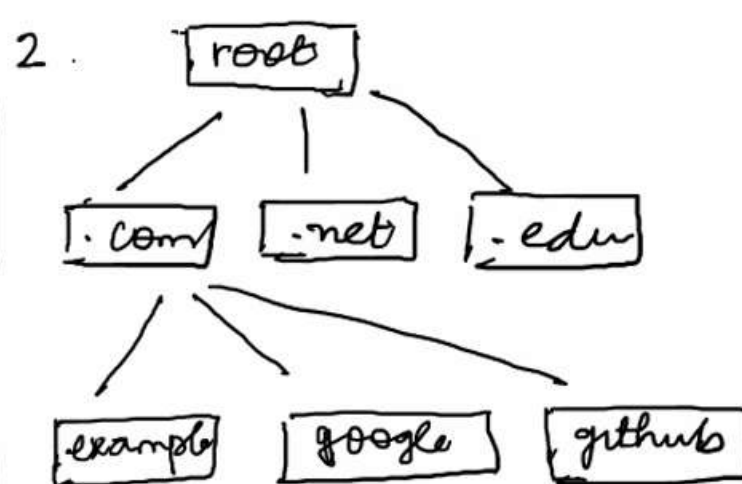
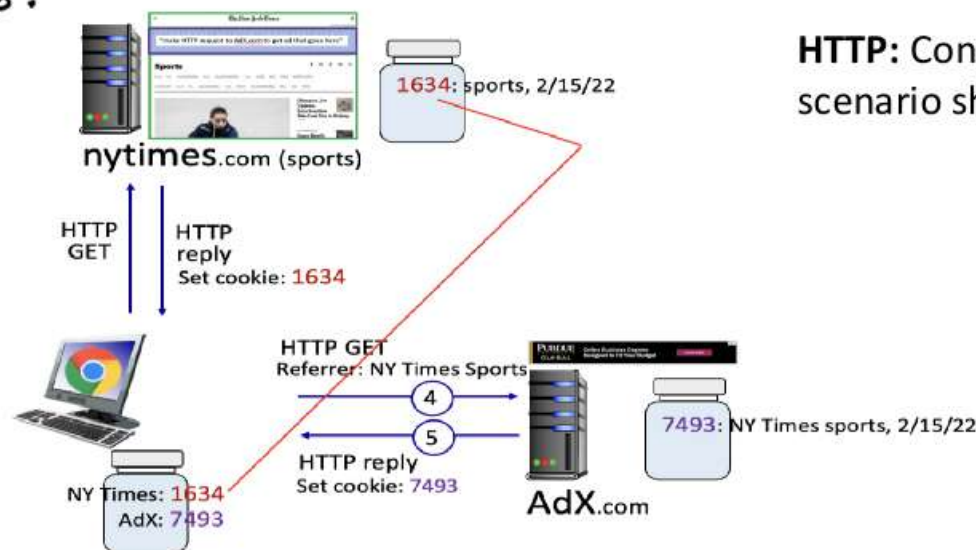


**DHT:** Consider the following DHT system using a  $2^5$  virtual space and successors for breaking ties. Assuming node 3 is looking for a filename F with a hash value of 16 and the file is actually present at node 6. The lines represent the connectivity among the peers.



**DNS:** Consider the scenario on the left, showing the name servers hierarchy in DNS. Suppose the domain *example.com* adds a new page *abc.example.com*.

3.



**HTTP:** Consider the web browsing scenario shown here.

Quiz on Moodle  
Password:  
application

**Started on** Tuesday, 4 November 2025, 9:02 AM

**State** Finished

**Completed on** Tuesday, 4 November 2025, 9:06 AM

**Time taken** 4 mins

**Grade** 2.00 out of 10.00 (20%)

**Question 1**

Incorrect

Mark 0.00 out of  
2.00

**DHT:** Which node contains information about the file F in the DHT?

Answer:  ❌

The correct answer is: 21

**Question 2**

Not answered

Marked out of 2.00

**DHT:** How many lookups by 3 will be made to find location of F?

Answer:  ❌

The correct answer is: 2

**Question 3**

Incorrect

Mark 0.00 out of  
2.00

**DNS:** How many name server tables need to be modified when the addition is made?

Answer:  ❌

The correct answer is: 1

**Question 4**

Incorrect

Mark 0.00 out of  
2.00

DNS: Assuming recursive resolution, how many queries would the local DNS resolver need to make to resolve *example.com*?

Answer:  ❌

The correct answer is: 1

**Question 5**

Correct

Mark 2.00 out of  
2.00

HTTP: What is the minimum number of TCP connections required to download the full webpage assuming persistent HTTP connections.

Answer:  ✅

The correct answer is: 2

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[Quiz 9 ▶](#)