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Computer Networking Principles

11/12/21

Homework 9

4.22

The overall purpose of the Domain Name System (DNS) is to provide a service that maps human-readable symbolic names to computer addresses.

4.23

Assuming ISO has assigned N country codes, N top-level exists. A country code is one of the top-level domains and each one becomes one top-level domain.

4.24

False, because a web server does not need to have a domain name that begins with www. The use of www to name computers that run a web serve is merely a convention. An arbitrary computer can run a web server, even if it’s the computer’s domain name doesn’t contain www.

4.26

A domain name server send a request to an authoritative server when the requested name is not found in its server and also not in the cache. Additionally, it answers the request without sending to the authoritative when the server is the authority for the name requested or if the name is found in the cache.

4.30

Iterative DNS lookup is used when a DNS client asks the DNS server for name resolution through several servers until the answer is obtained.