CS490-004 Network Programming
Possible Quiz Questions (Quiz #10)
on November 12th, 2026

The following is a list of possible questions for our quiz on November 12th. Some of the questions will not be asked in the quiz. All the questions that will appear in the quiz will appear exactly as shown below (however, numeric parameters may be changed). The quiz is closed textbook, closed notes and closed neighbors. Note that the questions, which did not appear in this quiz, still may appear in the exams. You will find a solution for these questions during lectures.

#1: How can "directory traversal attacks" happen (show it using an example)?

#2: What is the most effective solution for preventing directory traversal attacks (from the viewpoint of network programming)?

#3: Mention (show) some examples (at least two) of "sanitization" to prevent directory traversal attacks.

#4: How can "SQL injection attacks" happen (show it using an example)?

#5: Mention (show) some examples (at least two) of "sanitization" to prevent SQL injection attacks.

#6: How can "OS command injection attacks" happen (show it using an example)?

#7: Mention (show) one example of "sanitization" to prevent OS command injection attacks.

#8: In XSS (Cross Site Script) attacks, who prepare CGI program (Perl source code files) used for the attack?

#9: In XSS (Cross Site Script) attacks, where malicious scripts are executed?

#10: In XSS, why don't attackers send malicious CGI forms directly to web clients?

#11: What security weakness in third-party web servers XSS attackers use for performing XSS attacks?

#12: What is the most effective solution for preventing XSS attacks (from the viewpoint of network programming)?

#13: If directory traversal attacks successfully happen, whose faults are they?

#14: If SQL injection attacks successfully happen, whose faults are they?

#15: If OS command injection attacks successfully happen, whose faults are they?

#16: If XSS attacks successfully happen, whose fault are they?