

CS 372 **Introduction to Computer Networks**
Self-Check Exercises: Lecture 33

- 1) What was the initial motivation for IPv6?
- 2) What are three significant changes from IPv4 to IPv6?
- 3) What is the IPv6 representation of the IPv4 address 152.35.44.122 ?
- 4) Which of the following are valid representations of the IPv6 address?
5002:0000:0000:000a:0000:0000:0000:04cb (See RFC5952 for reference)

5002:0:0:A::4CB ____
5002:0:0:a::4cb ____
5002::a:0:0:0:4cb ____
5002::a::4cb ____
- 5) In IPv6, what do the following header fields indicate?
 - Payload Length:
 - Hop Limit:
 - Next Header:
- 6) How is the transition from IPv6 to IPv4 being made?
- 7) Why not just convert the datagram to an IPv4 datagram from that point onward?