Homework 9

**Question 1/2:** Use Wireshark to open your traceroute.cap created by following the instructions of Lab 9.Find the first UDP packet to google.ca, insert the screenshot of the Wireshark showing the IP and UDP headers of that packet. Fill in the values of the IP and UDP headers in the table below (add more rows if needed):

a: Insert the screenshot showing IP and UDP headers of the first UDP packet below:

A screenshot of a computer

AI-generated content may be incorrect.

b: Fill in the blanks with values of the IP and UDP headers:

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| Byte |  | 0 | | | | | | | | 1 | | | | | | | | 2 | | | | | | | | 3 | | | | | | | |
|  | Bit | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
| 0 | 0 | 0100 | | | | 0101 | | | | 0 | | | | | | 0 | | 60 | | | | | | | | | | | | | | | |
| 4 | 32 | 393e | | | | | | | | | | | | | | | | 0 | | | 0 | | | | | | | | | | | | |
| 8 | 64 | 1 | | | | | | | | 17 | | | | | | | | 2324 | | | | | | | | | | | | | | | |
| 12 | 96 | 172.16.1.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 128 | 142.251.33.67 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 160 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 | 192 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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No udp table given?

**Question 2/2:** Use Wireshark open the same file as in question 1,find the first ICMP packet sent to 172.16.1.1 (r-eth2 of the router), insert the screenshot of the Wireshark showing the IP and ICMP headers of that packet. Fill in the values of the IP and ICMP headers and the part of the ICMP data (up to the first 8 bytes of data from the IPv4 packet that causes the error message) in the table below(add more rows if needed):

a: Insert the screenshot showing IP and ICMP headers of the first ICMP packet below:

A screenshot of a computer program

AI-generated content may be incorrect.

b: Fill in the blanks with values of the IP and ICMP headers:

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| Byte |  | 0 | | | | | | | | 1 | | | | | | | | 2 | | | | | | | | 3 | | | | | | | |
|  | Bit | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
| 0 | 0 | 0100 | | | | 0101 | | | | C0 | | | | | | 88 | | E07b | | | | | | | | | | | | | | | |
| 4 | 32 | 0 | | | | | | | | | | | | | | | | 0 | | | 64 | | | | | | | | | | | | |
| 8 | 64 | 1 | | | | | | | | 3f46 | | | | | | | | 172.16.1.1 | | | | | | | | | | | | | | | |
| 12 | 96 | 172.16.1.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 128 |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 160 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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