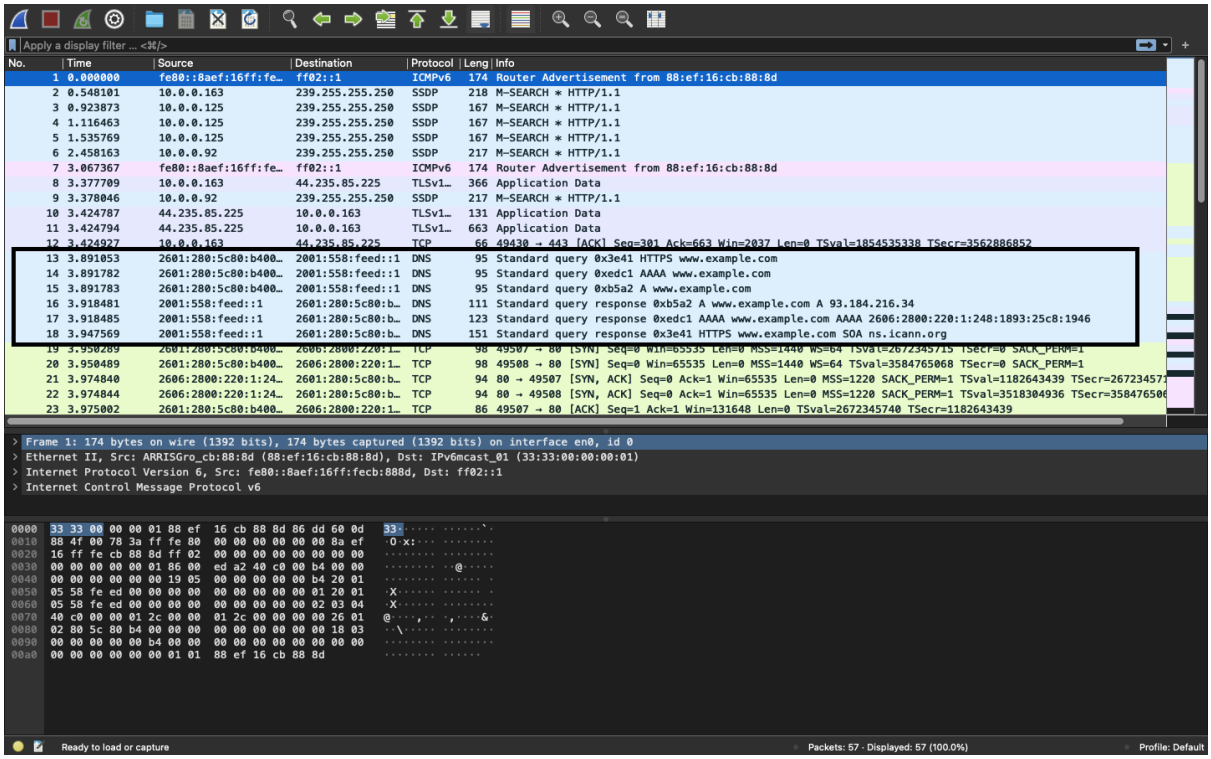
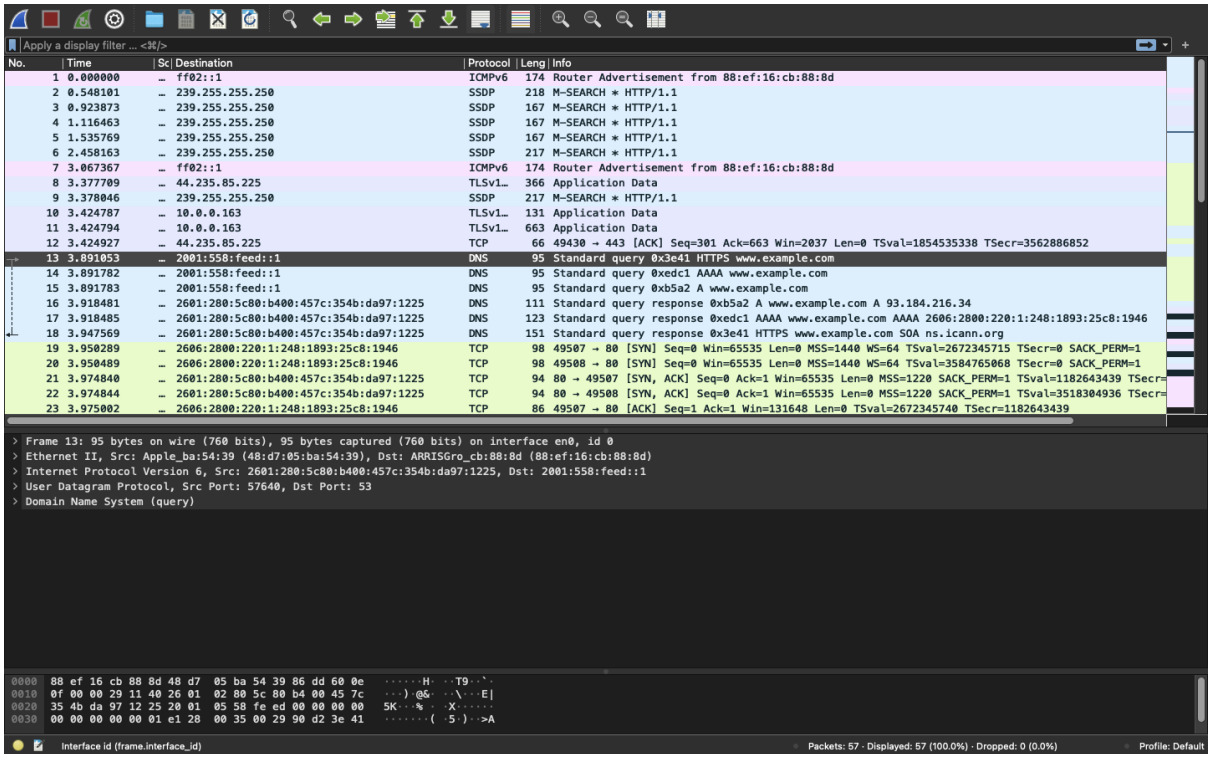
Quiz 2

Question 1

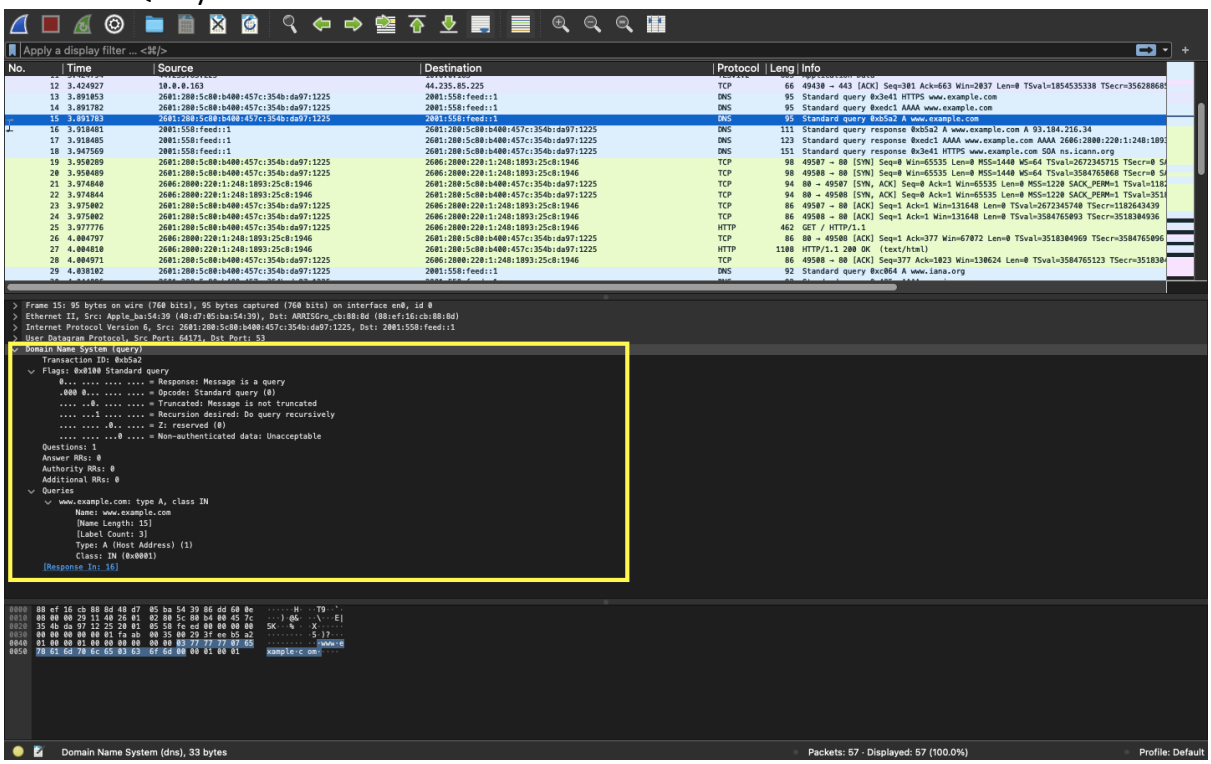
Screenshot of my DNS Query and response for www.example.com webpage with HTTPS, IPV4 and IPv6 packets :



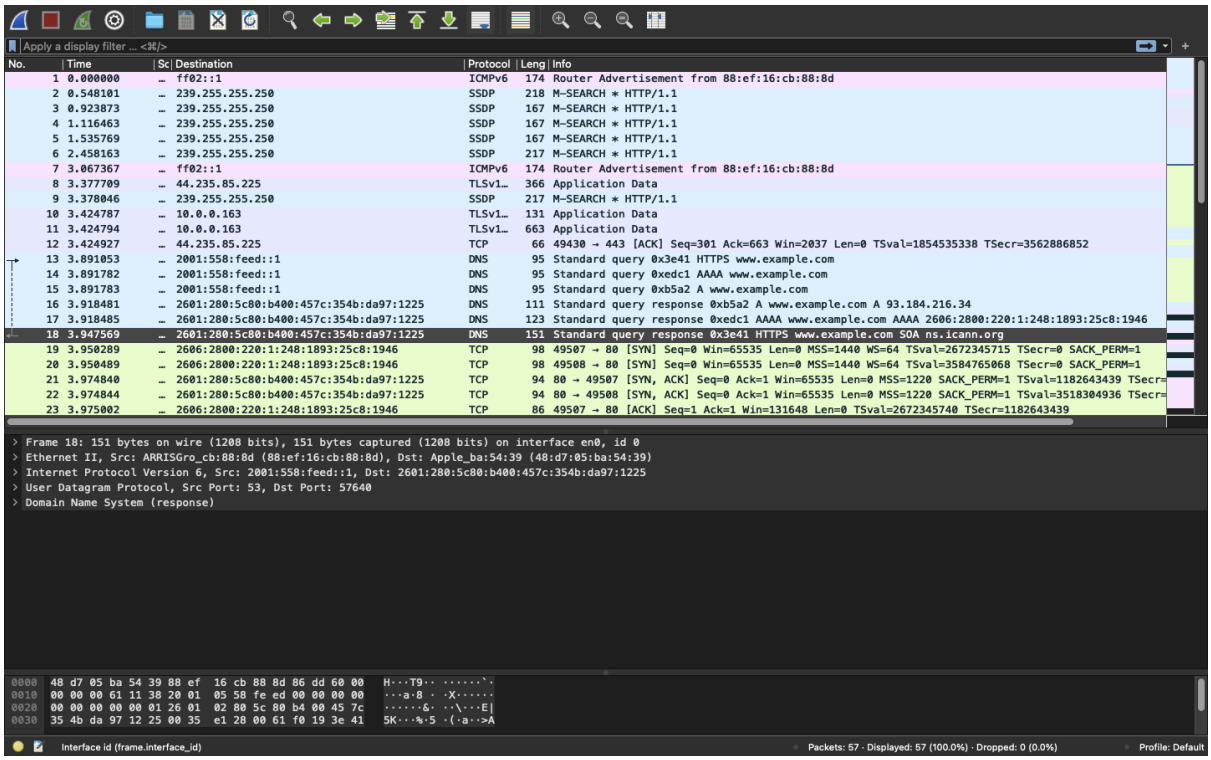
Standard Query IPv4 Screenshot 1:



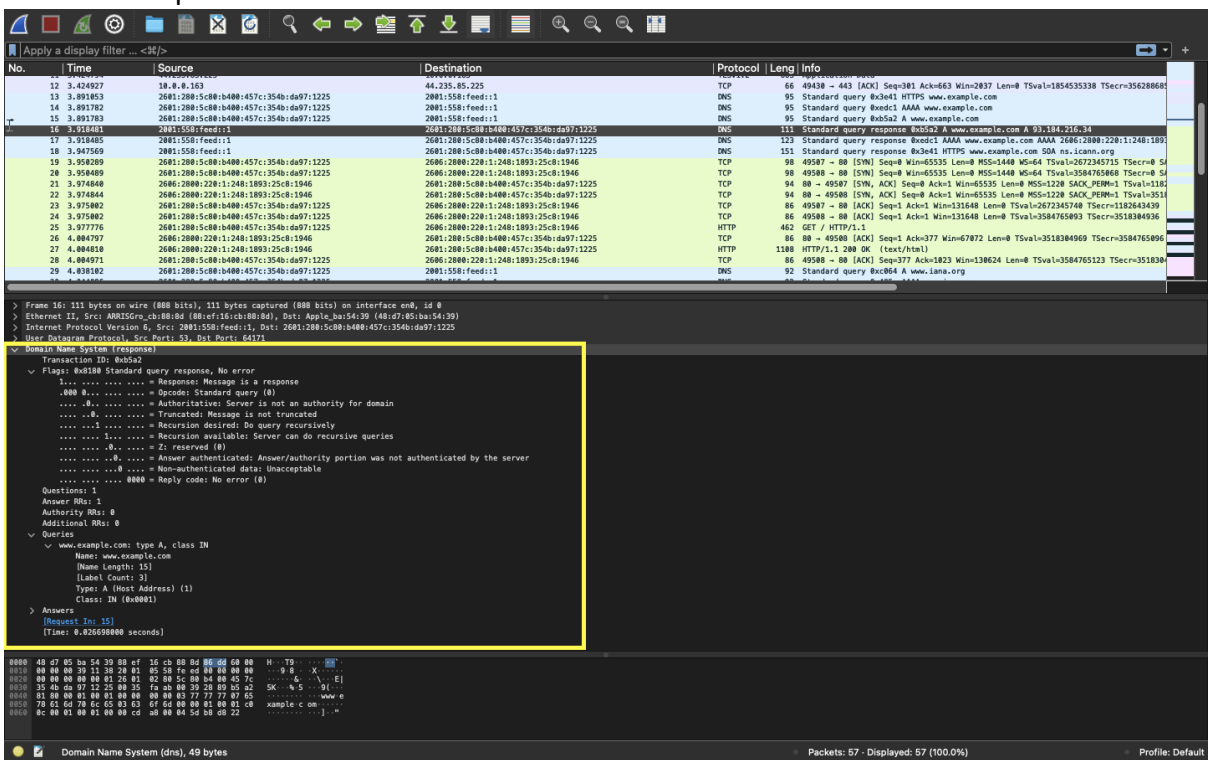
Standard Query IPv4 Screenshot 2:



Standard Response IPv4 Screenshot 1:

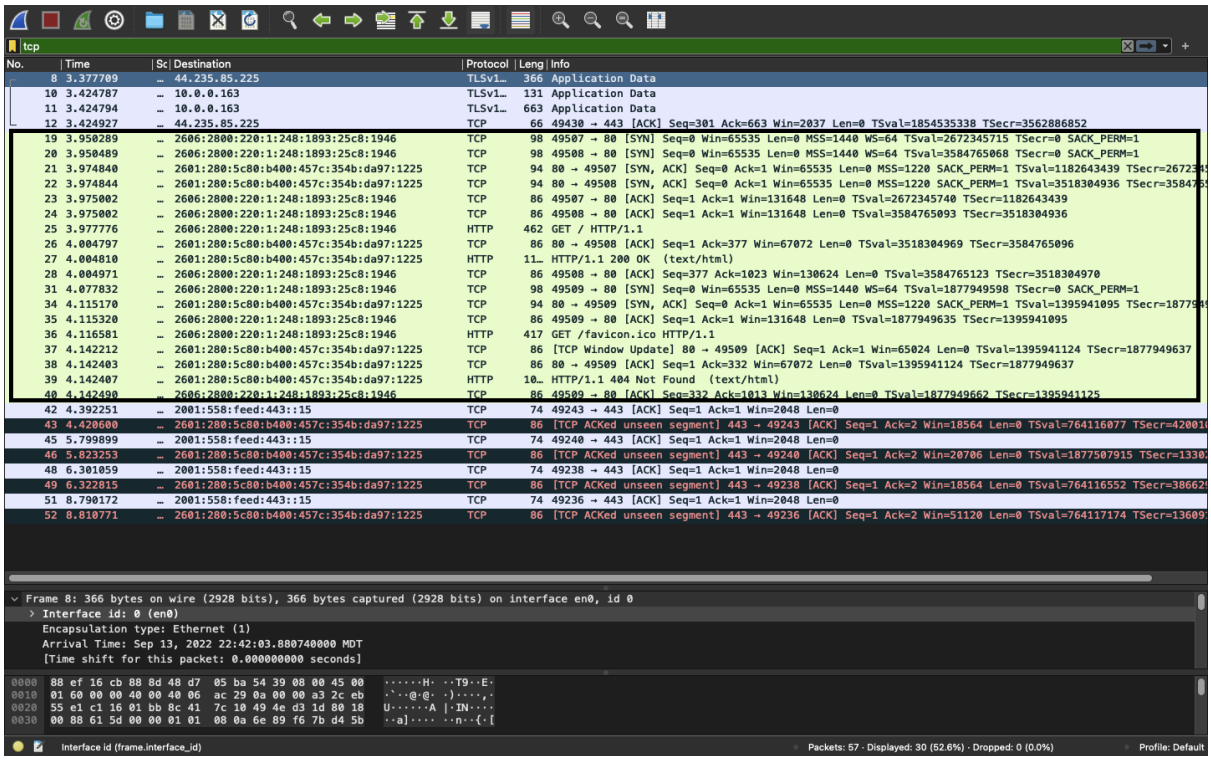


Standard Response IPv4 Screenshot 2:

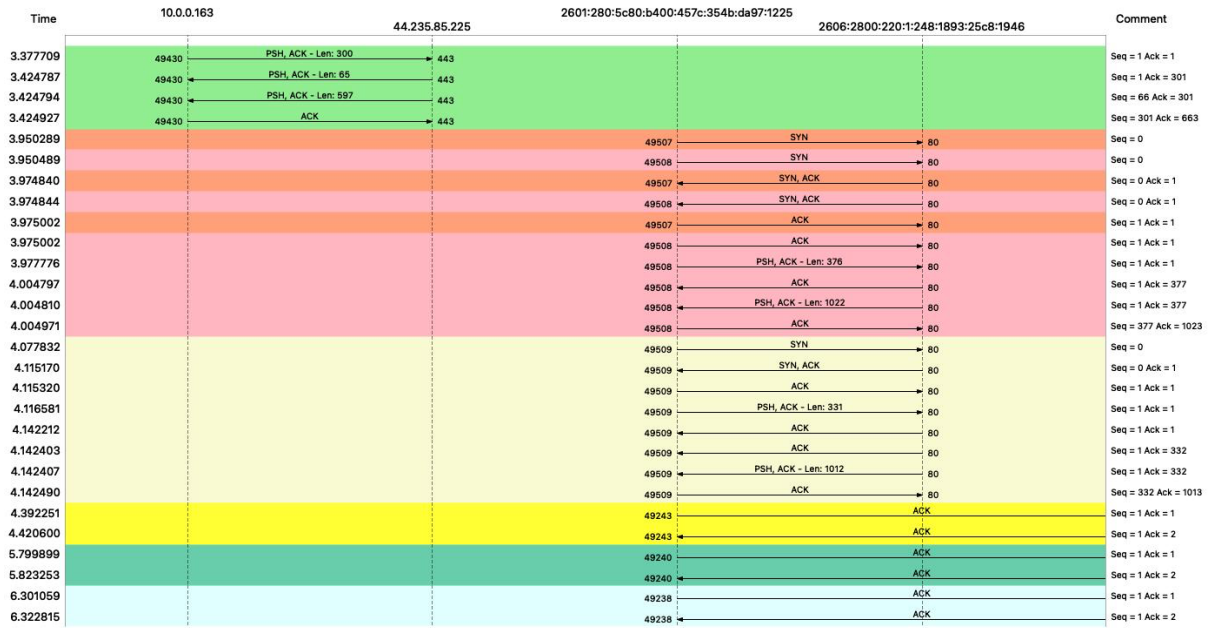


Question 2

Screenshot of my TCP 3-way handshake connecting to the webpage:

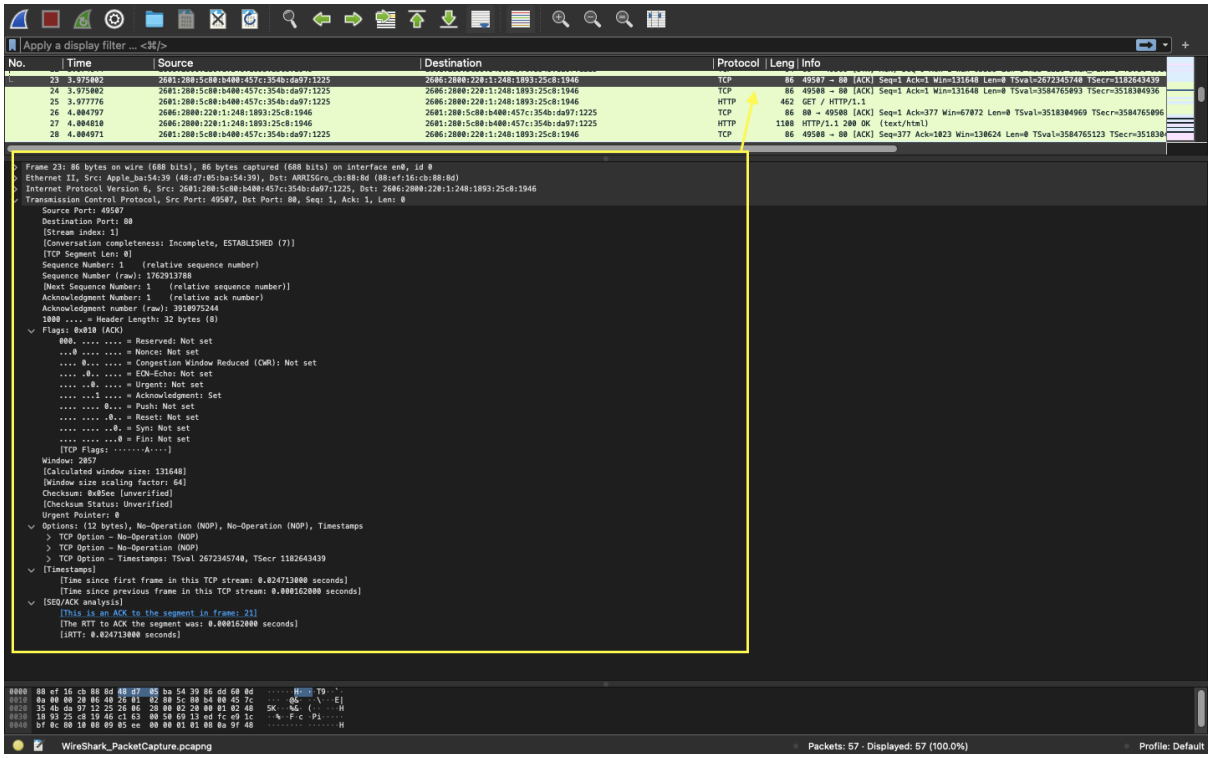


TCP Flow Chart Obtained for Statistics is as follows:

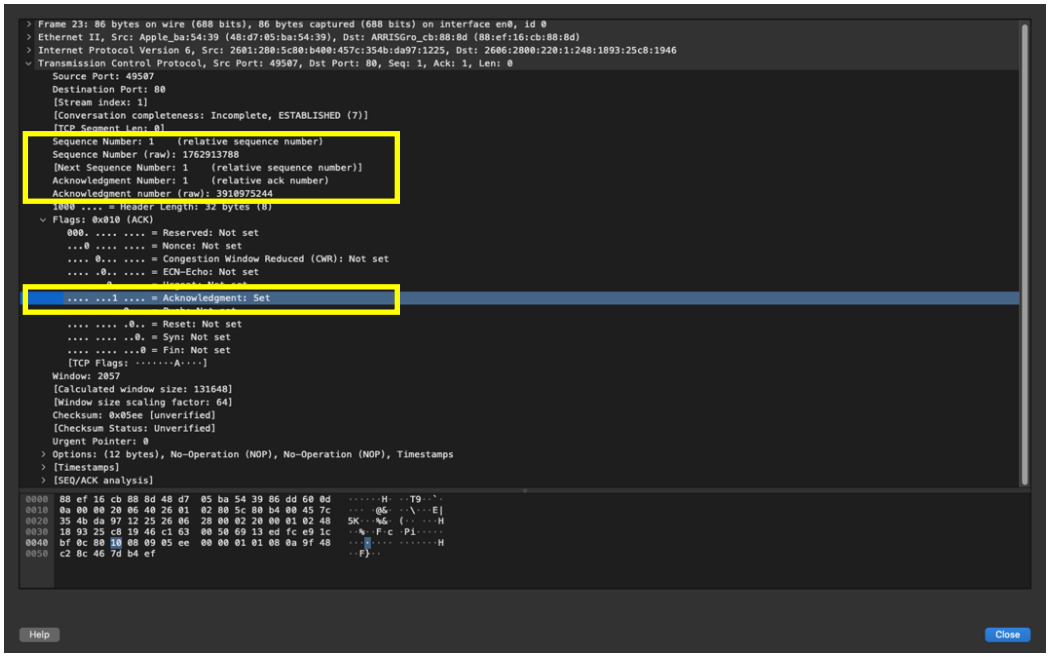


Question 3

Screenshot of an ACK



Detailed View of ACK Packet with Acknowledgement bit set to 1:

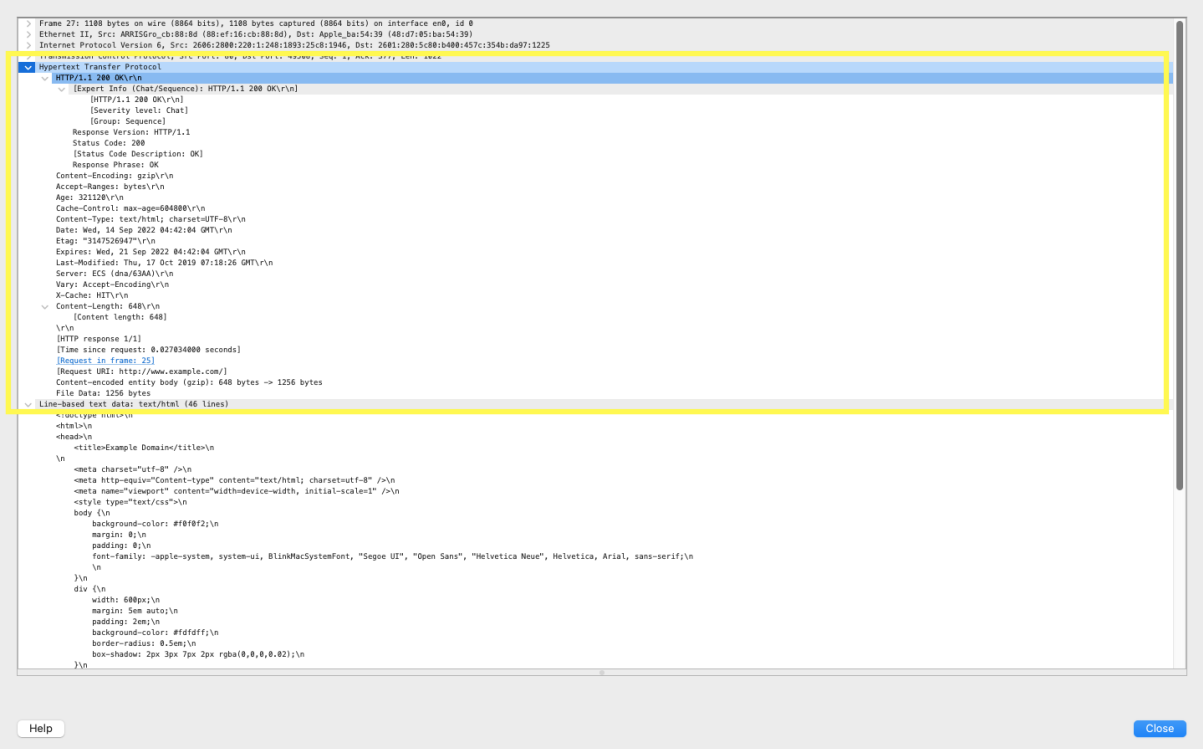


As seen in the screenshot attached, please find the sequence and acknowledge number as follows:

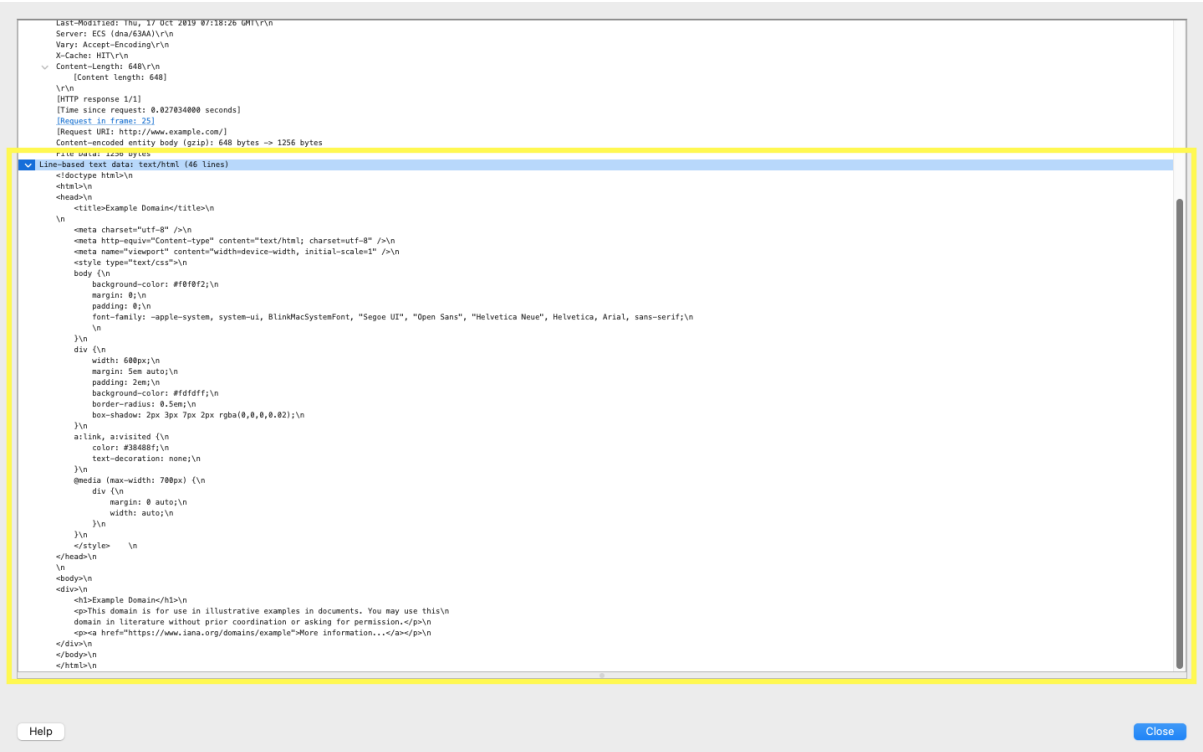
Sequence Number: 1	(relative sequence number)
Sequence Number (raw):	1808727242
Acknowledgment Number: 1	(relative ack number)
Acknowledgment number (raw):	1110471532

Question 4

Below screenshot shows the HTTP packet where html file from server is loaded into browser



Detailed text/HTML code obtained as a line-based text data:



Question 5

List the values your computer used for:

a. Source MAC	Apple_ba:54:39 (48:d7:05:ba:54:39)
b. Destination MAC	ARRISGro_cb:88:8d (88:ef:16:cb:88:8d)
c. Source IP	2601:280:5c80:b400:457c:354b:da97:1225
d. Destination IP	2606:2800:220:1:248:1893:25c8:1946
e. Source TCP Port	49508
f. Destination TCP Port	80