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COMP429

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Lab 06 – Routing

Download this [L06-traceroute.pcapng (Links to an external site.)](https://drive.google.com/file/d/15BL-u8C3QSLyGc9DRaKjfj4xOJ2aT_KO/view?usp=sharing) file

***qanda***

***Please include the questions and answers (qanda) in your submission.***

1. ***How many hops did it take to get from my computer to google's endpoint?***

12

1. ***Which hop did not respond?***

8 because it is a \*

1. ***The IPv4 TTL header plays an important role with traceroute, write a wireshark filter to find the frame numbers that contain the queries that was not responded to.***

Ip.ttl == 8, because the query number 8 was not responded to.

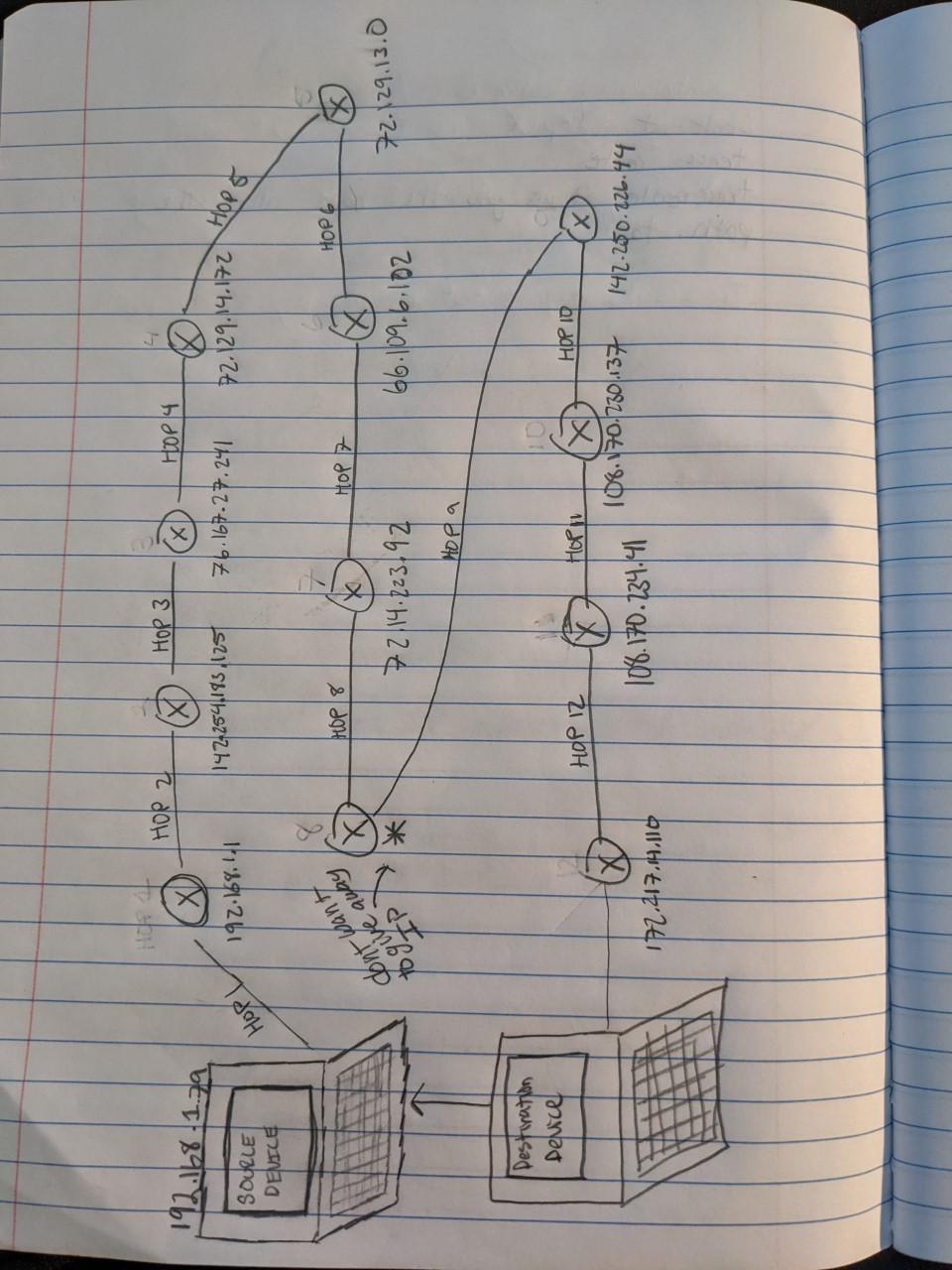
1. ***What protocol does traceroute use for the queries?***

UDP for UNIX like environments

\*Windows uses ICMP Echo Requests.

1. ***What protocol do the routers use for the responses?***

ICMP

1. ***Draw and label with the route with an IP address and hop #.***