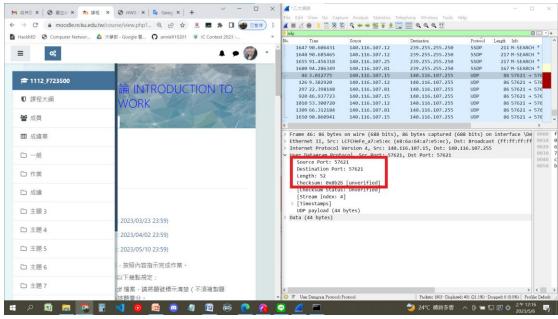
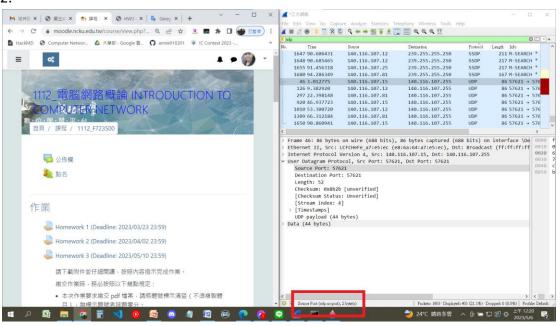
## F74092308 尤莙琇

1.

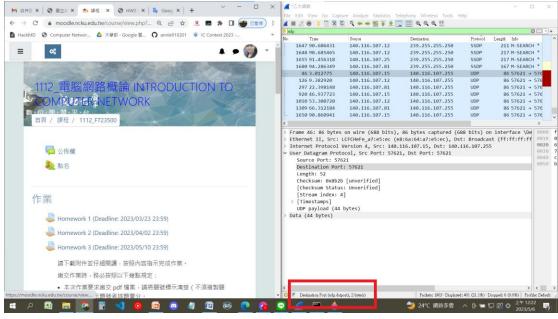


4 field( source port \( \) destination port \( \) length \( \) checksum)

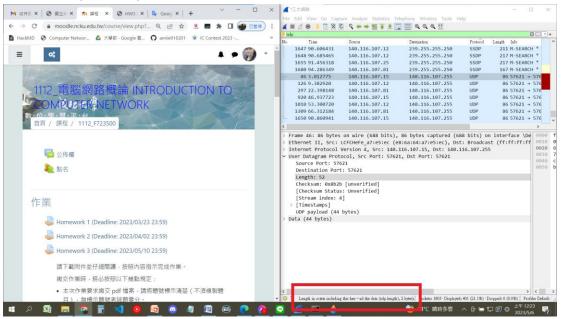
2.



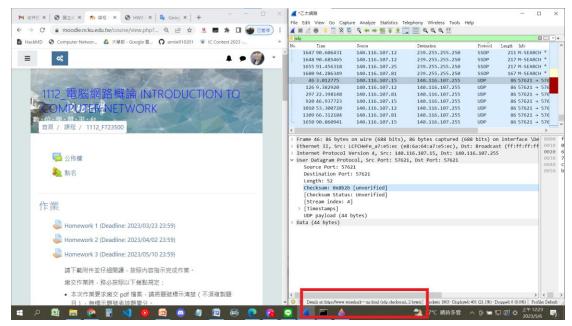
Source port: 2 bytes



## Destination port: 2 bytes

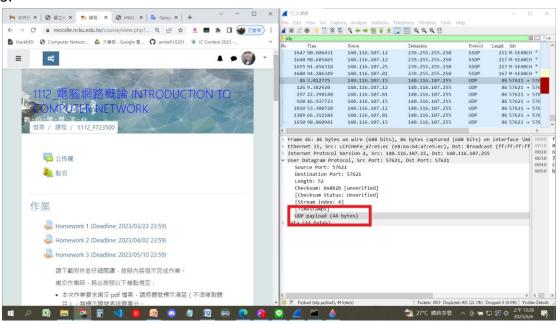


Length: 2 bytes



Checksum: 2 bytes

3.



UDP packet 的 payload 是 44 bytes,加上 header 也就是 source port、destination port、length、checksum 的 2\*4bytes 一共是 52bytes,剛好可以跟 length 的 52 對上.

所以 The value in the Length field is the length of header + payload

4.

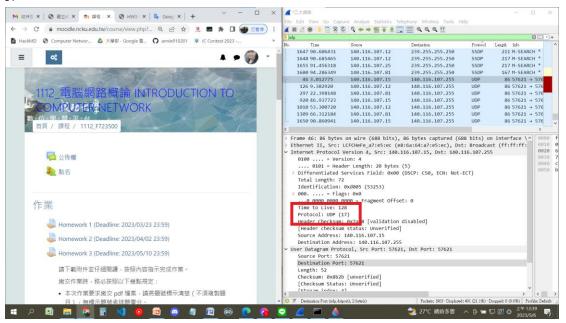
由第二題,Length = 2 bytes,又 1byte = 8bit,所以一共是 16bits 2^16 - 1 = 65535

65535 - 8(header) = 65527

所以 maximum number of bytes that can be included in a UDP payload = **65527** bytes

5. 由第二題,Source port = 2 bytes = 16bits 所以 largest possible source port number = 2^16-1 = **65535** 

6.



the protocol number for UDP = 17