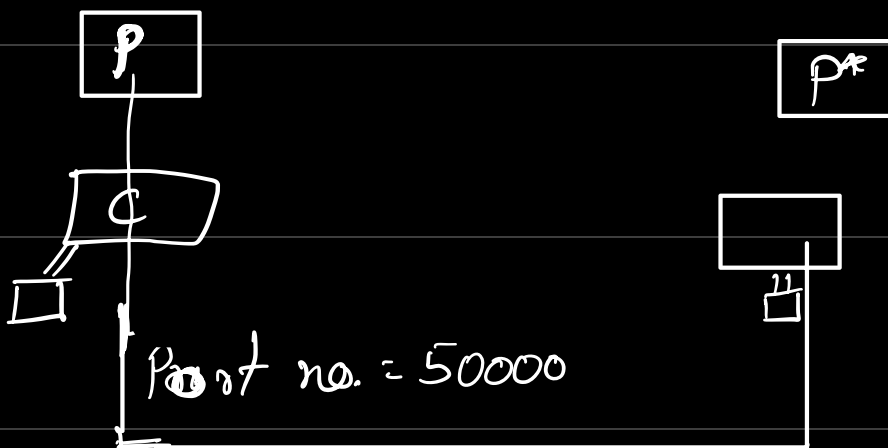


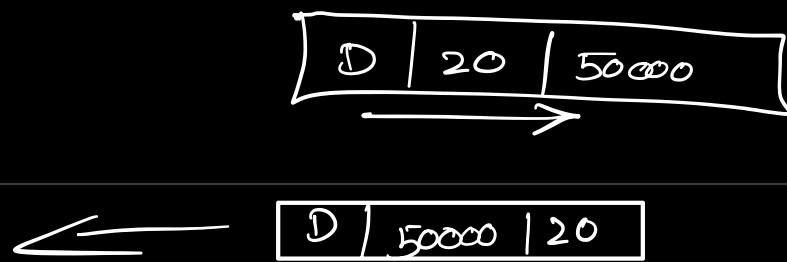
# Internet Assigned Number Authority (IANA)

- Well known ports  $\rightarrow$  1024  
 $\downarrow$   
controlled and assigned by IANA only.
- Registered ports  $\rightarrow$  not assigned or controlled by IANA but it is used as duplicate ports as and when req.

Range 1024-49151

- Dynamic ports  $\rightarrow$  Also known as Ephemeral ports (Randomly chosen)





- Total length = IP length - header length (UDP length)
- UDP checksum looks into 3 important sections at transport layer
  - ① pseudo header → part of header of IP packet in which user datagram is to be encapsulated.
  - ② UDP header
  - ③ Data from application Layer

Sections utilized for calculating checksum.

Pseudo header.

32-bit source IP Address		
32-bit dest <sup>n</sup> IP Ad		
App Os	8bit protocol (17)	16-bit UDP total byte

UDP Header

DATA

Ex

153.18.8.105		
171.2.14.10		
App Os	17	15

1087	13
15	App Os

153.18  
8.105  
171.2  
14.10  
0 17  
15

T	E	S	T
I	N	G	Alloc

1087  
13  
15  
7  
E  
S  
T  
I  
N  
G

- Note → The checksum is optional in UDP and if it is not calculated then it is filled with all 1's.