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## Answer

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From the given the Source Port in the given specific Segment lies between 1024 and 65535 and it can be allocated by the application and the Port number for destination differs based on the server. In our case the destination server is FTP so the Port is 21. and it differentiate the clients depending on their given Port numbers of source and their IP addresses. So from the above the destination Port

number of FTP Server(s) is fixed i.e

21 and Source Port number (A) can

vary from 1024 to 65,535.

(a) So the segments sent from A to S

is src 8477 dest 21

(b) Segments sent from B to S

is src 9203 dest 21

(c) Segments sent from S to A

is src 21 dest 8477

(d) Segments sent from S to B

is ~~src 21~~ src 21 dest 9203

(e) Yes, it is possible that the

Source Port number in the segments

from A to S is same as  
from B to S since unique hosts  
~~can~~ would have the similar port  
number because they contain  
unique addresses of IP.

(b) No, it is not possible that the  
source port number in the segments  
from A to S is same as from  
B to S when A and B are same  
host because this can create both  
port number and IP address to be  
same i.e. equal which will assemble  
it not possible to carry the  
segment to the procedure which is  
right.

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