TWN14 COLLABORATOR(S): 5/3/1/0 1. What are the two parts of packet? Which stores the address and what stores the data? 2. What makes addressing so important for packet switching networks? 3. What are the different layers of the protocol layer and what purpose do they serve in delivering packets? 10/8/6/3/0 Layer Name Role in Delivering Packets		Spring 2016	-		NAME:	
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5/3/1/0	4. An Internet address (version 4 type would best store an IPv4 add	e) is stored in how many bytes? What dress in C?
5/3/1/0	5. A domain name, unlike a IP add protocol enables domain names to	
10/8/4/0	6. Using the host command line to names to an IPv4 addresses. Circl address. www.cis.upenn.edu	
	www.cs.swarthmore.edu	
	www.usna.edu	
	facebook.com	
	microsoft.com	
5/3/1/0	7. Rerun host again, does any of a domain name want to resolve to	the IP addresses change? Why might multiple IP addresses?
5/3/1/0	8. What is the purpose of a port type would store a port address?	address? How many bytes and what C
5/3/1/0	9. TCP provides reliable data tramight you want to use UDP over TC	_

NAME:

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10. Match the data types to	o their u	sage in network addressing:
10/8/6/3/0		
struct in_addr	(a)	Specifies the address type, e.g. AF_INET, for the addrinfo structure
in_addr_t		
s_addr	(b)	Specifies the address type, e.g., AF_INET, for the sockaddr_in structure
sturct sockaddr	(C)	A type defined unint32
atrust sockaddr in	(d)	A generic address structure for sockets
struct sockaddr_in	(e)	Structure to store a IPv4 internet address
sin_family	(f)	A unsigned short storing the port for a sockaddr_in
sin_port	(g)	Structure used to hint at IP addresses for resolving as well as storing results
sin_addr	(h)	Member of the sockaddr_in that stores the address
struct addrinfo	(i)	The sole member of the in_addr structure
ai_family	(j)	A generic socket address returned in a addrinfo
ai_addr	(k)	A specific address structure for sockets to store IP, port pairs
	sockaddr	_in *) result->ai_addr;
5/3/1/0 12. The following functions inet_aton(), what are their	s are opp r purpose	osites, inet_ntoa() and s? Provide a small example.

Г	13. What byte order does local hosts use and what does the network use? (That is, Big vs. Little Endian)
./0	14. When you are assigning a port to a socket address, which of these two conversion should use and \underline{why} ? htnos() or ntohs()?
/1/0	15. Consider setting the address for 10.4.32.41 on port 22, set fields appropriately:
	stuct sockaddr_in saddr;
L	
/0	16. Label each of the arguments in this socket() and give a brief explanation of their meaning:
/0	
/0	brief explanation of their meaning:
/0	brief explanation of their meaning:
/0	<pre>brief explanation of their meaning: sock = socket(AF_INET, SOCK_STREAM, 0)</pre>
	<pre>brief explanation of their meaning:</pre>
/0	<pre>brief explanation of their meaning:</pre>
/0	<pre>brief explanation of their meaning: sock = socket(AF_INET, SOCK_STREAM, 0) 18. Label and provide a brief explanation for each of the arguments to this call to connect(): connect(sock, (struct sockaddr *) saddr_in, sizeof(*saddr_in)</pre>

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