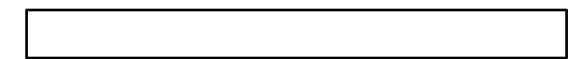
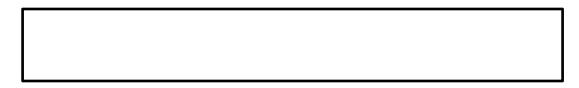
COTT A DODA MOD	( ( )	٠.
COLLABORATOR	(D)	) :

5/3/1/0 1. What is the output of this code snippet, and to which standard file descriptor does each write to.

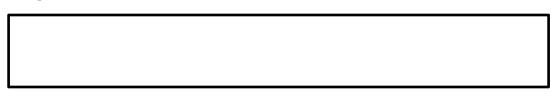
write(1, "Go Navy!", 7);
write(2, "Beat Army!", 9);



5/3/1/0 2. What is the difference between a string and a buffer

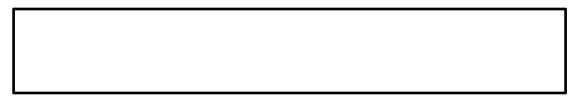


5/3/1/0 3. What is the type of a file descriptor? What does a file descriptor reference?



8/5/3/0 4. Complete the following code segment for write the bytes of the float f to the standard output file descriptor, and reading in the bytes of a float into f.

5/3/1/0 5. Explain the concept of an ORing and how it encodes options and mode to open()?



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10/8/4/0	6. C	Complete the ORing option strings to match the equivelent en() options:
	r	
	W	
	r+	
	w+	
	a	
0/8/4/0	hell	Complete the program below that properly opens the file .oworld.txt with read permission and then writes the string .lo World" to that file:
		nclude <unistd.h> nclude <fnctl.h></fnctl.h></unistd.h>
	int	main(int argc, int argv[]){
		<pre>int fd; char helloworld[]="Hello World!";</pre>
		//open file helloworld.txt
		//write helloworld to file
		//close file
	}	

10/8/4/0 <sup>8</sup> · W	rite the equivlent mode ORing for the octal permissions: note: leading 0 indicates number is in octal)
0777	
0640	
0740	
0501	
5/3/1/0 9. W	hat is the umask and when is it applied? Why is it idered a security perameter?
	Type <b>umask</b> in the shell on a lab computer, what is your ent umask?
$^{\prime}$ of 0	The <b>touch</b> command will opeb a file with the creation mode 666, that is, read+write for user, group, and everyone. should be the permission of the new created file?  ain.
neve	What is the umask such that all created files should r have group should never have default write or execute, everyone and user can have any permission?
/30	3 of 4

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NAME: \_\_\_\_

NAME:			

10/8/4/0 13	Match	the	following	description	± 0	the	struct	etat	member.
1U/O/4/U ±3.	Match	LIIE	TOTTOWING	description	LO	LIIE	Struct	Stat	member:

st mode

(a) The user id of the owner

st uid

(b) The last modification time

st\_atime \_\_\_\_

(c) The size in bytes of the file

st mtime

(d) The group id of file

st\_ctime \_\_\_\_

(e) The creation time

st\_size \_\_\_\_

(f) The number of file-system blocks to store the file

st\_blksize \_\_\_\_

(g) The last access time

st\_gid \_\_\_\_

(h) The permissions for the file

5/3/1/0 14. System calls return what on error? What function can print a succient error message based on checking **errno**?

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7/5/3/0 15. The system call **utimes()** modifies the access and modification time and has the following protype:

utimes(const char \*path, const struct timeval times[2]);

The array of **struct timeval** is of length 2, what is the first timevalin the array refer to and what does the second with respect to the file being modified?