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TOD/C).			

	нw9	COLLABO	DRATOR(S):
2/1	1. Match each scheduling strate	gy to	its description:
	Shortest Job Next	(a)	Every job runs for a set amount of time before moving on to the next
	Preemptive Round Robin	(b)	Job's of the highest priority alway runs next.
	Priority Scheduling	(C)	Jobs are run in the order they are created
	First Come First Serve	(d)	Jobs in the same group run with the same priority, but other priorities might run too.
	cilevel Queue Scheduling	(e)	Job that finishes first runs with higher priority
/1	2. Which of the above schedul like Operating Systems?	ling a	algorithms is used by Unix-
2/1	4. Why is it the case that ar decrease its priority but car	_	
2/1	5. Run the <b>ps</b> command on any exists a process running with the name of that command:		
	Machine: mich302csd u.ac	cadem	y.usna.edu
	Nice 15 Command:		pid:
	Nice 16 Command:		pid:

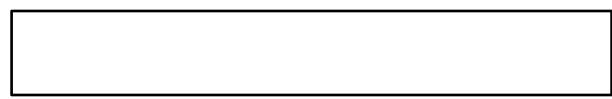
NAME:	

5/3/2/1 6. What are three main process states? Explain each.



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7. Provide two reasons why a process may be waiting but not running?

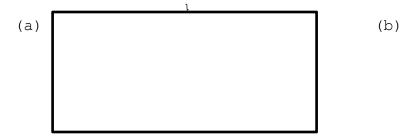


8. For the small progream snippet, describe the likely state that the program could be in at the marks? Explain.

```
int d,i,j,sum;
for(i=0;i<100;i++){
     printf("Give me a number:\n");
    scanf("%d",&d);
     sum = 0;
     for(j=0;j<d;j++){
          sum += j; ←
                             (b)
```

2/1

printf("Sum is: %d\n", sum);





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9. What is a zombie and how are they created? (process zombies, not human zombies)

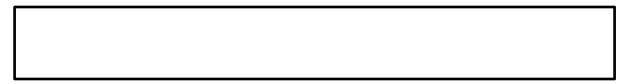
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5/3/2/1 10. Why are zombies a bad thing? (process zombies not human zombies)

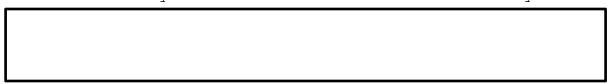
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4/2/1 11. What is an orphan process? What process "adopts" all orphans?



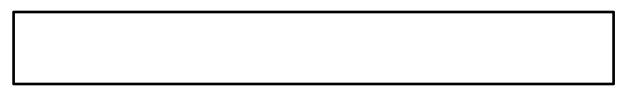
3/2/1 12. What is a tty? The modern and the anachronistic tty?



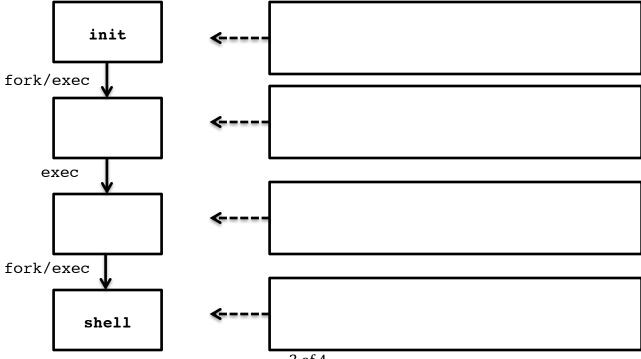
3/2/1 13. How many core tty's are launched at boot? One of the tty's is reserved for what purpose?



 $^{4/2/1}$  14. The terminal device driver controls and manages access to what service?



5/3/2/1 15. From **init** complete the chain exec's and fork's all the way down the shell. Describe the task of each.



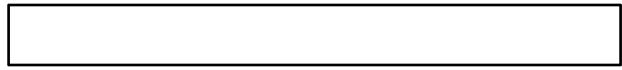
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16. The terminal device driver handles a number of signals to jobs. Which keys do you press to indicate to the terminal device driver to terminate a job and which do you press to have the driver stop a job?

5/3/2/1

17. What is the difference between a **job** and a **process** with resepect to tasks executing from the shell?



18. For each of the sequence of commands, what would be the output of **jobs**, generally. Be sure to indicate which jobs are running and which are stopped.







5/3/2/1 19. What happens when a background process tries to read from **stdin**?

5/3/2/1 20. What happens when a background process tries to write to stderr or stdout? Why does this differ from stdin?

\_/32 4 of 4