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6. On a lab machine, run the following program in the background:

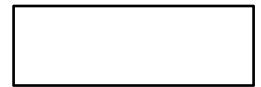
~aviv/bin/ic221-signaler &

From the same (or another) terminal on the **same** machine, send the program either a SIGUSR1 and a SIGUSR2 signal. Describe the result below:

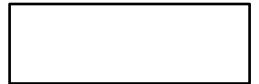
5/3/1/0 SIGUSR1

5/3/1/0 SIGUSR2

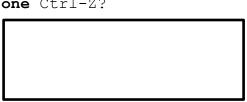
- 7. For the program below, answer the following questions: int
- 5/3/1/0 a) What is the output of running the program after entering **one** Ctrl-C?



5/3/1/0 b) What is the output of running the program after entering **four** Ctrl-C?



c) What is the output of running the program after entering **three** Ctrl-C and **one** Ctrl-Z?



```
count = 0;
void handler(int signum) {
    printf("You Shot Me!\n");
    count++;
    if(count > 3){
        printf("I'm dead!\n");
        exit(1);
    }
}
int main(){
    //set up handler
    //for SIGINT and SIGSTOP
    signal(SIGINT, handler);
    signal(SIGSTP, handler);
    //loop forever
    while (1);
}
```

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5/3/1/0	<pre>8. What does the system call pause() do? Explain what the difference between the code snippets:</pre>
5/3/1/0	9. The alarm() system call schedules which signal to occur after the specified time? How do you reset an alarm?
5/3/1/0	10. How many times does the program below print alarm?
	<pre>int count = 10; void handler(int sugnum) { printf("Alarm!\n"); count /= 2; alarm(count); }</pre>
	<pre>int main() { signal(SIGALRM, handler); alarm(count); while(1) pause(); }</pre>
5/3/1/0	11. For the following program, how long does it take for the signal to be delivered? What happens after it is delivered?
	<pre>int main() { alarm(1); alarm(2); alarm(3); alarm(1);</pre>
	}
5/3/1/0	12. Convert the use of signal() to a use of sigation() by filling in the sigaction struct:
	<pre>struct sigaction action; signal(SIGUSR1, handler);</pre>

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	-	the description of the EINTR end when would such an error or
	What sigaction flag is us be restarted when inter	sed to ensure that system call upted?
	Jse man 7 signal to answe default actions for certa	er the following questions aboain system calls:
	Signal Name	Default Action
	SIGKILL	
	SIGTTIN	
	SIGALRM	
	SIGABRT	
	SIGTOU	
	SIGCHLD	
and w	-	which system call is re-entrict(), recv(), pause(). For the ot be re-entrent?

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