Q code workout 1 a) Produces = 83 HI Consumed = 85 waits when the buffer is empty, while the empty semaphore ensures that the producer waits who c) The sleep(1 function in the producer 4 consumer functions simulates processing time, creating a pause between producing (consuming items to mimic 1891-world delays & nake simulation more realistic 3

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BE-4B 22K-5 G5	Date:
Code work out 2.	
	ATTENLED SECTION
c) Dry Rum	* * * * * * * * * * * * * * * * * * *
Reader Function:	Very market
1. Acquire the must senaphore	- $ -$
2. Increment the reader count	
3. If it's the first reader Lock	the 'rumutex'
Semaphore to block with,	
4. Relesse ll nute smap sor	
5- Read from the file line by line	& print CRC4 L20.
6. Acquire de nutex senoprose.	
7. Decrement the readers - cons	
of it it is the 1954 reader, release	e the 'tw-muth'
singpore to allow uniters	
19. RACTURE to mute & somewhole	
10. Sleep for a short durch .	
Writer Function.	
1. Acquire the Yw - mutex ' sensphon	to ensure oxclusive
access to File	
2. Initialize vandom seed	
2. Generale a codo chies of	characters.
4. My white random string to file	& print it to const
5. Flush the File buffer to ensu	10 uniting is complete
6. Release the Yw_nutex semap	hore to allow sty
uniters et readers	
7. Sleep for short auchion	Teacher's Signature:

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d) if This rondition is not because readors
orcgaine the mutex somaphone posse checking is a
uniter is currently using shared object.
If with is waiting (+w nuter 100kg) reader.
can't increment, the neader s-bungs
in This condition is met be writers acquire
If writer is waiting to access object, no
If writer is waiting to access object, no
new readors may start reading because trumplexing
is locked, preventing readers from accessing
to the until writer this was writing

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