Homework Week 11

۵.3.	Once the head reaches the track, we have to wait for
	the sector to pass under the num.
	Since, the position of sector is unknown when the head
	reaches the track, a guess is made and we have
	to wait for half a rotation. If the disk restates
	at R revolution per unit time the restational latercy
	11 LAINS 2K
	The restational latency, which is incurred for each request only depends on a disk parameter, R. It can thousand because it will be the same for all scheduling algorithm.
	only depends on a disk parameter, R. It can therefore be
	ignored because it will be the same for all scheduling
	algorithm.
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8.2.	In polling, the CPV explicitly checks the device
1 0000	until the device indicalis that it is done
	In interrupt, the external puripheral devices by to stop the CPV executing some tasks.
	by to stop the CPU executing some tasks.
A.e.T.	
Acces	In polling, the device driver writes the parameters in operand register and requested instructor code
	in the opcode register. Controller then triggers the
	device to execute the operation and at the same
	time busy register is set to indicate that device is
	busy. Once the CPU reads the non-busy, it checks
	the status register for any error and if no
	the status register for any error and if no voror it starts transfering data.
	The advantage of polling is that, the CPU bandwidth devoted to 1/0 is controlled by the system, not by
	the divice Polling loaned surland the system, not by
	the dwice. Polling based systems were better
	that would flood the system with it
	protected against the duries that malfunction and that would flood the system with introcupts.

Q.1 In the Generic Structure of a device driver, the Interrupt Service Routine of the device driver is called whenever the operation completes on the device controller and an interrupt is raised. Because, the execution of Interrupt Service Routines is so disruptive to the rust of the system, divice driver disigners separate the time-critical operations from not so vitical operations. The time critical operations are packed into ISR which executes immediately when interrupt is raised The remaining op n are packed into the DPC routine, which is grieved up to executed after the ISR rectivens When the system is done executing ISR, it chicks whether there are DPCs to be encuted. As a result ISR are shorter and less disruptive. For example, diclaring device as no longer busy is more important that transfering the data. The latter operation can be delayed and executed when CPU is idle.