Name: Aften Ahrad

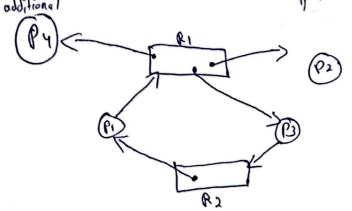
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BSC65-A

ON. 1)

Resource Allocation Graph (RAGI)

 $(\sigma)$ 



process	Allocated		Request	
Par Control	Ri	R2	β, 1	
Pi	0	)	1	$\circ$
P 2	)	0	0	0
Ps	١	0	0	1

Sequence: P2, P1, P3

All process execute successfully

did Lock not appear

nl

Available

(c) No, The only possible execution sequence is

P2, P1, P3

troti i jan j<sub>eta</sub>nte()

ON02)	R	Osource s
(a) (a)	F	) = 10
		3= 5
Process es		-1-7
Po Max Need Alloca	ted Remaing Need	
7 5 3 H B	L A BU L	Amilable
7	0 7 4 3	3 3 2
2 2	0 1 2 2 +	200
9 6 2	PICE	3 2
P <sub>3</sub>	2 6 0 0 B (-)	431
Py 2 2 2 2 1 1	1 0 1 1 0	1 6
4 3 3 0 0 2	4 3 1 PO 4 7	5 3
		0 2
Seguence PIP3	P2 (-10	5 5
Segnence P1, P3, Po, P2, P4	Remaining	
	Cr. Taring	Need
Resource are		- Pllocatal
Allocation + Auvailable = L	10	35
AB (	A BC P4 - 10 5	5 7
10 5 7 1	10 5 7	c ork

(b) P2 Chequest (1,0.1) resources.

Principole is (10.5.75)

Yes, resource will be granted as

les, resource will be granted as available resources
(10, 5,57) are greater than request

GY

before solving the question the available tesources is (3, 3, 2)
which is also greater than (1,0.1)
so process 2 get request immediately.



QN03)

Single Partition Memory Allocation

Consider a computer system with a single partition memory allocation scheme. Total size

1) PI require 200 KB memory

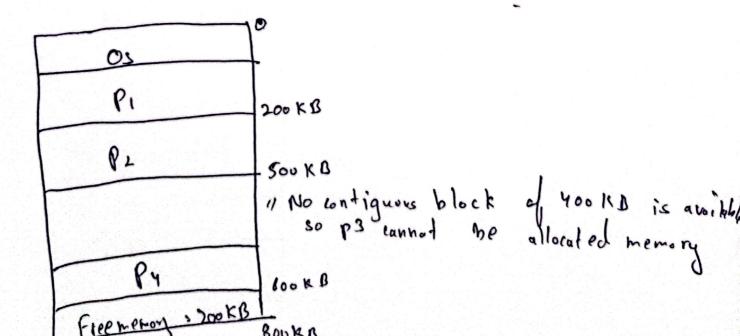
BOOKB

2) P2 require 300 KB memory

3) Ps require 400 KB memory

my Py require 100 KB memory

Assuming the first Lit memory allocation algorithm



Internal Freymentation: Total nemory - sum of momery allocated to process

= 800 KB - (200 KB + 300 KB + 100 KB)

= 800 KB - 600 KB

= 200 KB

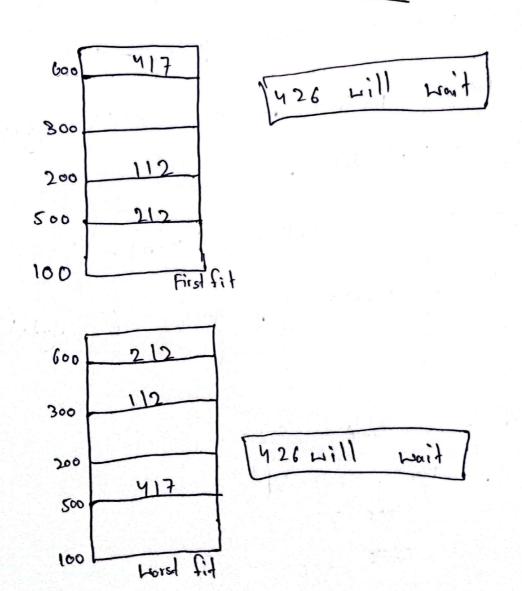
"Internal Fragmentation in the memory Allocation" &

## ON.y

Griven 5 portition of 100 KB, 500 KB, 200 KB, 1300 KB, 600 KB (In order)

use the first fit, worst fit algorithm to place

212 Kb, 417 Kb, 112 Kb, 426 Kb (In order)



yes There is common memory partition that is not allocated to any process in both strategices

## QN.5)

Enter the total memory available (in Byles) - 800 Enter memory required Grocess ( (in Dytes) -Memory is allocated for process 1 Po you want to continue (y/n) - y. Enter memory required for process 2 (In Oyles)-300 Memory is allocated for process 2 Do you want to continue (Y/n) - y Finder memory required For process 3 (In Bytes) - 550 Memory is Full Total Memory Available : 800 Process Memory Allocated 2 300

Total Memory Allocated is 500 Total External Fregmentation is 300