# Consider the following enapshot of a system: Process Allocation Max Available Process Need		Name - Gowan Roll - 39 CS-SEDA	Suram			// PA	GE NO.		/	
# Consider the following enapshot of a system: Process Allocation Max Available Po 1 1 2 4 3 3 2 1 0 m P1 2 1 2 3 2 2 1 0 m P1 2 1 2 3 2 2 1 0 m P2 0 2 0 7 5 3 1 m P4 1 1 2 1 1 2 Q) Calculate the content of the need matrix b) If the system in safe mode c) Determine the total amount of resourcer of each ty Process Need Po 3 2 1		00	5 TUTORI	AL - 6						
# (onsider the following enapshot of a system: Process Allocation Max Available A B C A B C A B C Po 1 1 2 4 3 3 2 1 0 7 P1 2 1 2 3 2 2 1 0 7 P2 4 0 1 9 0 2 0 7 5 3 1 1 1 2 P3 0 2 0 7 5 3 1 1 1 2 P4 1 1 2 1 1 2 P4 1 1 2 1 1 2 P Odermine the total amount of resolution of each ty Process Need Po 3 2 1		THE PARTY NAMED IN			amithr	n	old I	d) #		
# (onsider the following enapshot of a system: Process Allocation Max Available Po 1 1 2 4 3 3 2 1 0 0 1 P1 2 1 2 3 2 2 1 0 1 P2 4 0 1 9 0 2 1 P3 0 2 0 7 5 3 1 1 1 2 P4 1 1 2 1 1 2 P4 1 1 2 1 1 2 P 1 1 2 1 1 2 P 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		THE STATE OF			,					
Process Allocation Max Available Po 1 1 2 4 3 3 2 1 0 m P1 2 1 2 3 2 2 1 0 m P2 4 0 1 9 0 2 1 5 3 10 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1										
Po 1 1 2 4 3 3 2 1 0 m P1 2 1 2 3 2 2 6 6 7 P2 4 0 1 9 0 2 7 P3 0 2 0 7 5 3 7 9 7 9 P4 1 1 2 1 1 2 O) (alculate the content of the need motelix b) Is the system in safe mode c) potermine the total amount of resolution of each ty # (a) Need = max- allocation Process Need Po 3 2 1		# Consider the following enapshot of a system:								
Po 1 1 2 4 3 3 2 1 0 m P1 2 1 2 3 2 2 6 6 7 P2 4 0 1 9 0 2 7 P3 0 2 0 7 5 3 7 9 1 9 P4 1 1 2 1 1 2 O) (alculate the content of the need matrix b) Is the system in safe mode c) Determine the total amount of resolution of each ty # (a) Need = max-allocation Process Need Po 3 2 1		W. B. Da		ins Tire						
Po 1 1 2 4 3 3 2 1 0 m P1 2 1 2 3 2 2 1 0 m P2 4 0 1 9 0 2 1						-d	101	(1)		
Po 1 1 2 4 3 3 2 1 0/m P1 2 1 2 6 3 2 2 6 6 7 7 9 9 0 2 0 7 5 3 10 11 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9			The second second second				- 6			
P1 2 1 2 3 2 2 P2 4 0 1 9 0 2 P3 0 2 0 7 5 3 P4 1 1 2 1 1 2 Q) Calculate the content of the need matrix b) Is the system in safe mode c) Determine the total amount of resources of each ty # (a) Need = max-allocation Process Need A B C Po 3 2 1		14501	BC	AB	Corn	AI	3 C			
P1 2 1 2 3 2 2 P2 4 0 1 9, 0 2 P3 0 2 0 7 5 3 P4 1 1 2 1 1 2 Q) (alculate the content of the need matrix b) Is the system in safe mode c) Determine the total amount of resources of each ty # (a) Need = max-allocation Process Need A B C Po 3 2 1		D .	1 2	11 2	12	2	10	73		
P2										
9) Calculate the coptent of the need matrix b) Is the system in safe mode c) Determine the total amount of resources of each ty Process Need Po 3 2 1				The same of the same	The state of the s					
a) Calculate the content of the need motilix b) Is the system in safe mode c) Determine the total amount of resources of each ty # (a) Need = max- allocation Process Need Po 3 2 1	1041					A CONTRACTOR OF THE PARTY OF TH				
a) Calculate the content of the need matrix b) Is the system in safe mode c) Determine the total amount of resources of each ty # (a) Need = max-allocation Process Need Po 3 2 1										
a) (a) culate the content of the need matrix b) Is the system in safe mode c) Determine the total amount of resources of each ty # (a) Need = max-allocation Process Need A B C Po 3 2 1		#11 A 1 A 1	antion i ha	ollo · a	ailmoot	lo Cha	4			
b) Is the system in safe mode c) Determine the total amount of resources of each ty # (a) Need = max-allocation Process Need Po 3 21		+ 60 11	1 2) + (5 1,	() = "						
# (a) Need = max- allocation Process Need A B C Po 3 2 1		a) Calculate the content of the need matrix								
# (a) Need = max- allocation Process Need Po 3 21										
Process Need Process Need Po 3 21					of tes	ourcer	0	each	type.	
# (a) Need = max-allocation Process Need Po 3 2 1										
Process Need ABC	-11									
Process Need ABC	1	(a) Need = D	rax- alloca	rt(or)		.O	1 / 13	r		
Po 3 2 1		Process	C Nico-loo							
Po 3 2 1										
			THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.	present to the same of the sam						
					War w	A	-0.7	rr la		
P2 5 0 1 1 2 5 5 5 7		P ₂	501		13,8	= bao	ct			
P3 7 3 3 1000 Character		P ₃	7 3 3	Janes !	Chara	1 350	1.7			
P4 000		P.	000) , ,						

(b) No. of processes = 5

No. of resources = 3

worsk = available

I) for Bo

need = 3, 1, 5 of work = 2, 1, 0

since need \twork, po must wait

TI) for P1,

need = 1,10 f iooEk = 2, 1, 0

Since need < work, P1 mut be kept in safe sequence.

a complete the administration of

the following production of the selection of the

new allocation = allocation + need = (2,1,2) + (1,1,0)

= (2, 1, 0) - (1, 1, 0) = (1, 1, 0)

meed = (5,0,1) & work = 4,2,2

since need > 1000k, P2 must wait.

D) for P3,

need = 7,33 & work = 4,2,2

Since need > work, P3 must wait.

PAGE NO. DATE :

V) for P4. THE COLUMN need = 0,0,0 f. work = 4,2,2 since need a coock; Py must be kept in safe Santauna Fina sequence.

available = available - need = (4,2,2) - (0,0,0) = (4,2,2)

available for next process after execution of Pu is, new allocation + available = (1,1,2) + (4,2,2)

61 - 1 - 1 - 2 - 1

= (5,3,4)

exactlable for next exercise after P. executions

need < work

need < work

new allocation = allocation + need

= (1,1,2) + (9,2,1)

= (4,3,3)

Available = available - need = (5,3,4) - (3,2,1) = (2,1,3)

After execution of Po available = available + new allomation = (2,1,3) + (4,3,3) = (6,4,6)

(6201) 3

TII for P_2 ,

need $\langle work \rangle$ new allocation = allocation + need

= (4,0,1) + (5,0,1)= (3,0,2)

available = available = need = (1, 4, 5)

After execution of P2, available = available + new allocation = (1,4,5) + (9,0,2) = (10,4,7) need < work,

need < work, = (0.2, 0.) + (7, 3, 3.) = (7, 5, 3)

Available = available - need = (10, 4, 7) - (7, 5, 3) = (3,1,4)

After execution of P3

available = available + new allombion

= (3,1,4) + (7,5,3)

= (10,6,7)

The system is in safe mude, safe sequence: Ps -> P4 -> P0 -> P2 -> P3

1 19 In mailiners of A

(C) Total number of torateix resources of each type,

= total available resource

- allocated resources + available

= (8,5,7) + (2,1,0)

= (19,6,7)

Manalla Cara a skolicum a alkolicum