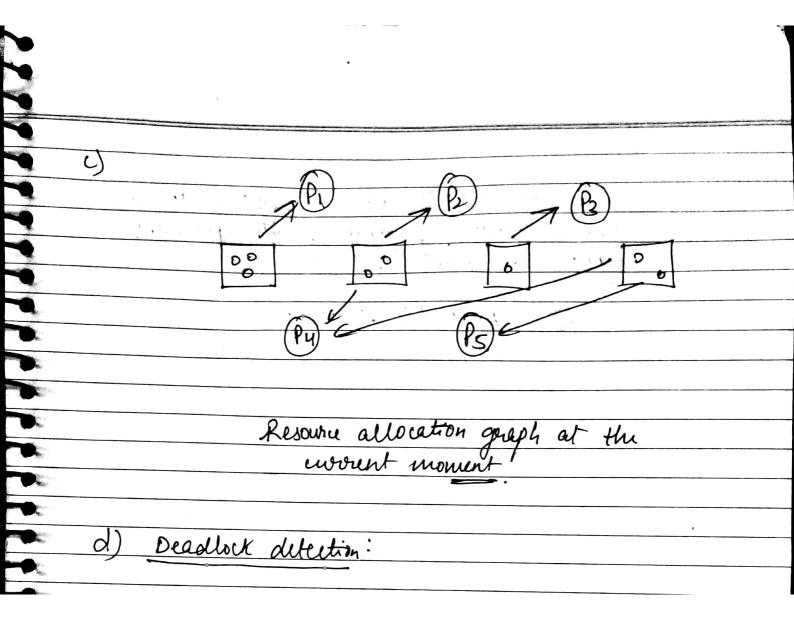


The Alberta Comment	
Available materix:	4
	•
RI Rz Rz Ry	•
2 0 0 0	·
	•
	•
b) Needs = Allocation + suguest	•
since max is not given, assuming it to	be:
	·
R=2 (1,	
$P_2 > 2$	(-
B; = 2	
Py 2 3	
Ps = 1 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 /	
ned matrix:	
R ₁ R ₂ R ₃ R ₄	
Py O I O	
1/2	
Y3	
Py .	
fs in the last term of the state of the stat	6.
as used materix:	
R ₁ R ₂ R ₃ R ₄	
P ₁ D D	
Pr O I I O	
f2 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
P4 1 0	(L
P5 0 0 1	



	G
	4
	C
* Deadlock detection algorithm;	C
" - Captagon Gogognama",	6
1) Let Work and finish be vectors of	6
1) Let Work and Finish be vectors of length m and n, suspectively, instialize:	-
Jung to the second of the second	(-
(a) Work = Available	É
(b) for i=1,2, or. if allocation to then	6
finish[i] = takse, clse true.	
the state of the second section of the section of the second section of the section of the second section of the section of	9
2) Find an index i such that;	
	•
(a) finish [i] == false	•
(b) Reguest; & work	•
	6
y no such i exists, go to step 4.	•
y no such i exists, go to step 4.	6
3) Work = WORK + Allocation;	•
Cinist Pit - true	•
go to step 2.	
V .	
4) If finish [i] == false for some : 15 i < v	٠ ا
then the system is in deadlock state	
4) If finish [i] = = false, for some i, 1 = i \(\) then the system is in deadlock state. Moreover, if Finish [i] == false, then P: is deadlocked.	
dealocked.	
= Since there is no selecter seque	
Deadlace un be possible.	

E)
The system is not in safe state as
the suggests of any of the processes
cannot be granted.

Or Available / med

	(02)
	Jogiel address:
Section 1	<u> </u>
<u> </u>	Page no. Offset
	8 61t 12 6it
	main memory lize = 256 Kbits = 256 XLIO
-	= 27 4) 10
	$= 28 \times 10^{10}$
-	= 2 18 61 to
-	- 2 OIG
7	
T Delo	(a) page size = 2× + x → no. q bits q yest
	(a) register in the poor of the of affect
-	= 2 ¹² bit
-0.0	, olu
man Marie	
William William	(b) maximum no. of sager por process.
No.	(b) maximum no. of pages por process.
tion of the same	= 28
nest()*	2
NO. PERSONAL PROPERTY OF THE PERSONAL PROPERTY	(A) MO O In 1-1-1-1
and the second	(C) no. of frames = tatal memory
	frame Size
7	ID TO
A	= 218 26 Jeanus.
1	212 1
A.	(d) memory &: Ze = 210 x210
	V
A	na of frames = total memory 220, 28 frame
	brame size 212
-	
	Scanned with CamScanner

y

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Q 2	
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cipila.	
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90109	•
ATT CONTRACTOR OF THE PARTY OF	•
	E
Somaphore customer = 0	
Semaphore Barber = 0	•
merten seats = 1;	•
ent pre seats = N;	· ·
the fire states	
Barber &	
while (true)	
•	
waix for customes/.	
doon (austonies);	
/ muter to protect the availa	bu trats
down (seats),	
free seats ++ , / gets a free cl	ail
V	
top (Barper); / bring cust/	sense for
warrant/	

7	Date Page
)	curtait (seats); / barber is cutting hair!
EM-II	(seas) / purber is cutting hair !
-	
•	customer &
•	while (true) 2.
•	down (seats)
8	ig (pre seats >0)
•	ž.
•	rue Seats;
9	· up (uctomers) [notify packet
3	
9	ly seats); seden lock/
	down (backle)
	3
	else
•	2
	get hair (ut (Seats).
	get hais cut (seats);
5	3
	3.
•	
	here Herre all the 3 constraints are fulfilled.
•	