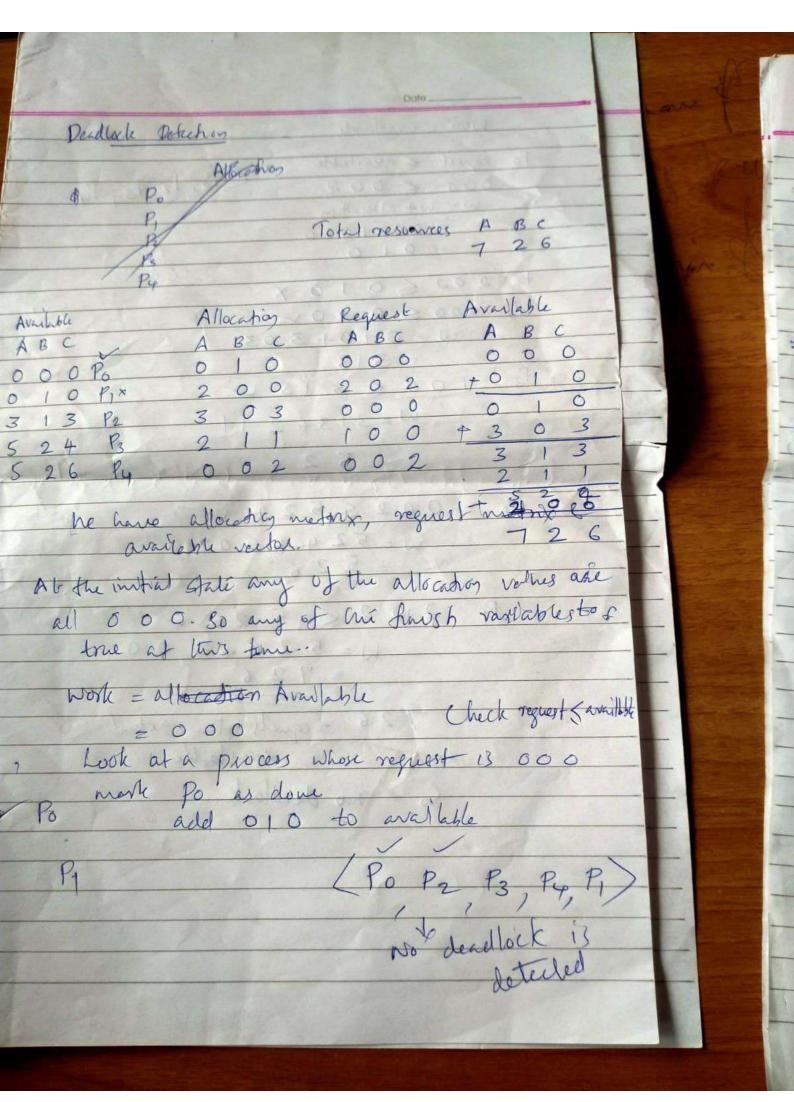


- spot
work = available
Po organist & available (Po, P2, P3, P4
w - w+ allocation
0 0 0 - 0 -
R 202 5010 X
VI
1
W=313+211
= 524
Ro 0025524
3
= 526
P, 202 5 5 26 V
1,1=526+200
= 726
1 2 6 2 equels the actual
avai lable
So no develock.
3

Deadlock avoidance Construct An algorithms that ensures that his systems will never entir a deadlock state in the deadlock avoidance algorithm. A deadlock avoidance algolynamically aparrials that a circular wait condition can never exest Safe stale_ A state is safe if the systems can allocate resources to each process in some order and still avoid a deadlock. A system is in a safe state only if there exists a fry 8.4 Ideallas unsale Sate seguence. Site, unsafe & and deadlock state grees * A supertali is not a deadlock stati A deadlock state is an unself state. Not all unsafe stiles au denellocks. An insafe state may had to a deadlock. - nony or maynot Consider a system with 12 tape drives & Po requires 10 tapes drives Suppose At truit to, Po is holding 5 tape always 2 P2 1, 2 Current needs



deallock delection * Allow the systems to enter deadlock state detection Multiple

(Variant of

Barbers as Single his home Releations of eyel is necessary a sufficient condition for deadlock worle savailable The of work m 11 h Polish ith process