OS Task

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Q1)

Process	Allocation	Max	Available	Need
P1	0012	0012	2100	0000
P2	2000	2750		0750
P3	0134	6656		6522
P4	2354	4356		2002
P5	0332	0652		0320

Work = 2100
Need = Max - Allocation

P1 = Need ≤ Work
= 0000 ≤ 2100 (True)

Work = 2112
P2 = 0750 ≤ 2112 (False)
P3 = 6522 ≤ 2112 (False)

P4 = 2002 ≤ 2112 (True)

Work = 4466

P5 = 0320 ≤ 4466 (True)

Work = 4798

P2 = 0750 ≤ 4798 (True)

Work = 6798

P3 = 6522 ≤ 6798 (True)

Work = 6812 12

Sequence : <P1, P4, P5, P2, P3>

(2) Yes, the system is in safe state because Finish [i] is true for all values of i.

(3) No, the system is not deadlocked because every process is executing and

all the process are fulfulling their needs.

(4) No, the process is deadlock.

(5)

a) Yes, request will be granted.

b) And the system will go with safe state.