DEADLOCK QUIZ QUESTIONS

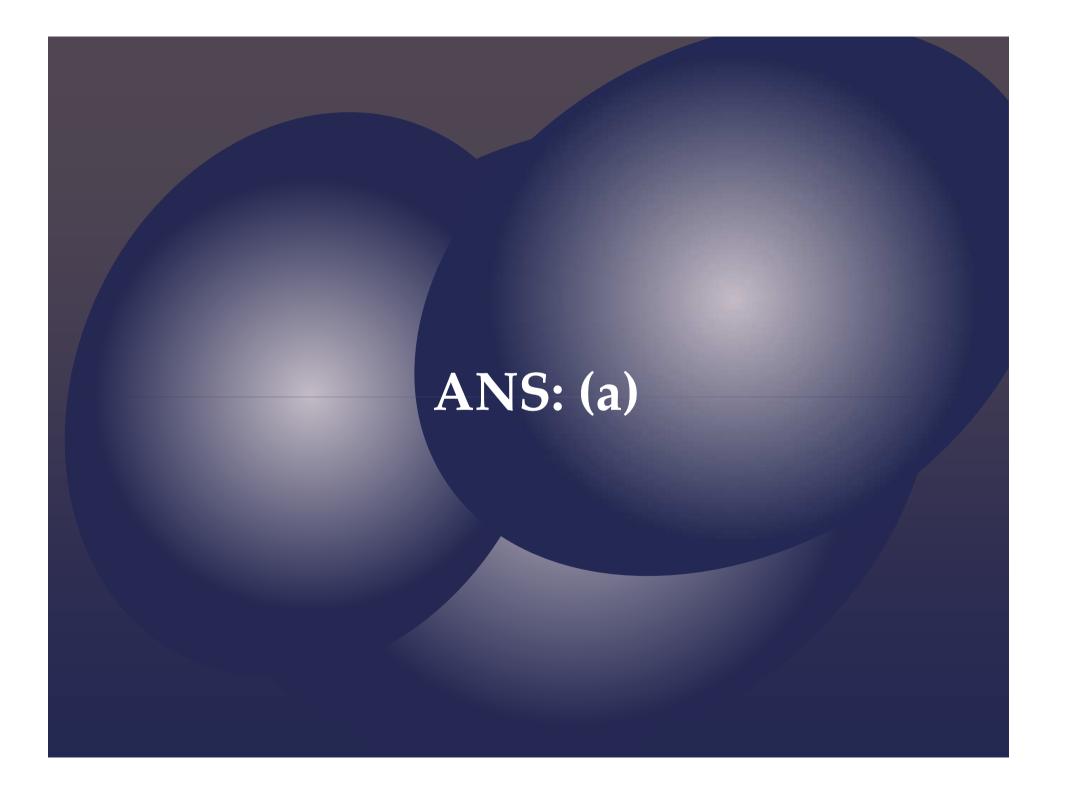
1. A System has 3 processes sharing 4 resources. If each process needs a max of 2 units, then deadlock

(a) never occur

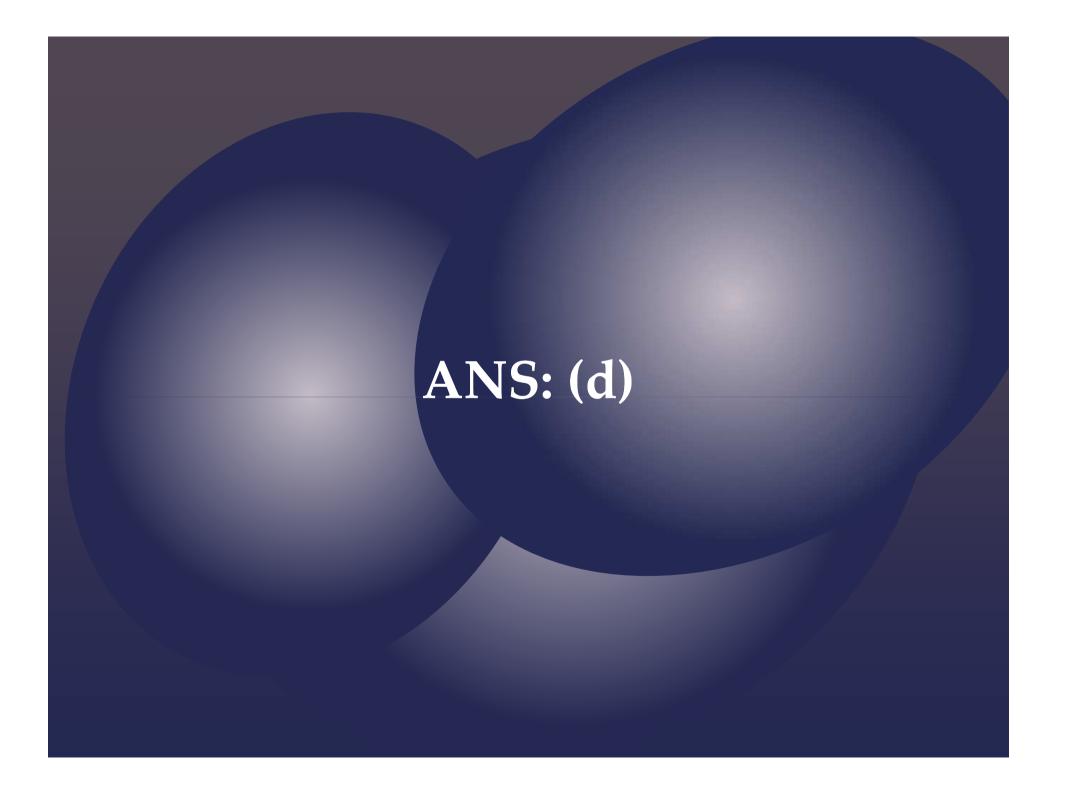
(c) has to occur

(b)may occur

(d)none of above



- 2. The methods for dealing with the deadlock problem is
- (a) Use a protocol to make sure that the system never enters into the deadlock.
- (b) Allow the system to enter a deadlock state and recover.
- (c) Ignore the problem and pretend that deadlock never occur.
 - (d) All of above.



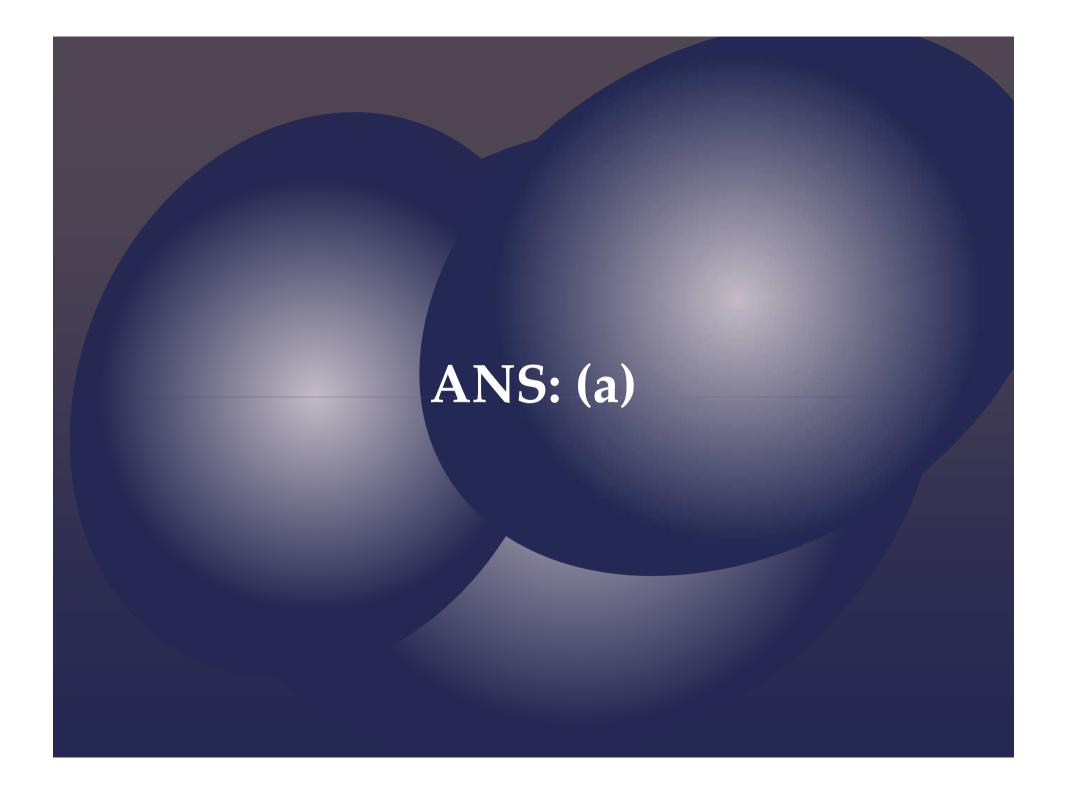
3. Which OS ignore the problem and that deadlock never occur in the system?

(a) UNIX

(b) LINUX

(c) Windows

(d) MAC



4. If the Resource Allocation graph contains m types of resources and n processes, then the time complexity of the algorithm for deciding whether system is safe or unsafe is

(a) O(n square*m)

(b) O(n*m)

(c) O(n square*m square)

(d) O(n*m square)

ANS: (a)

- 5. With a single resource, deadlock occurs
- (a) if there are more than 2 processes competing for that resource.
- (b) if there are only 2 processes competing for that resource.
- (c) if there is a single process competing for that resource.
 - (d) None of above.

ANS: (d)

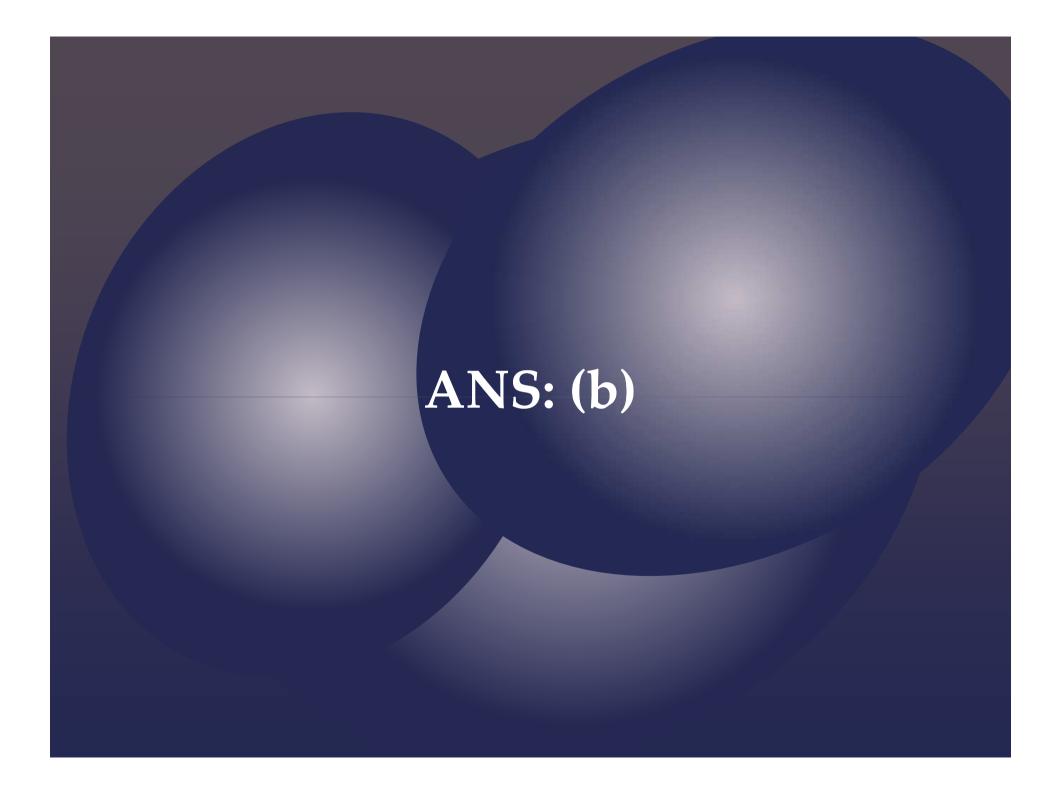
6. 'm' processes share 'n' resources of the same type. The maximum need of each process doesn't exceed 'n' and the sum of all their maximum need is always less than m + n. In this set up deadlock

(a) may occur

(c) has to occur

(b) never occur

(d) none of above



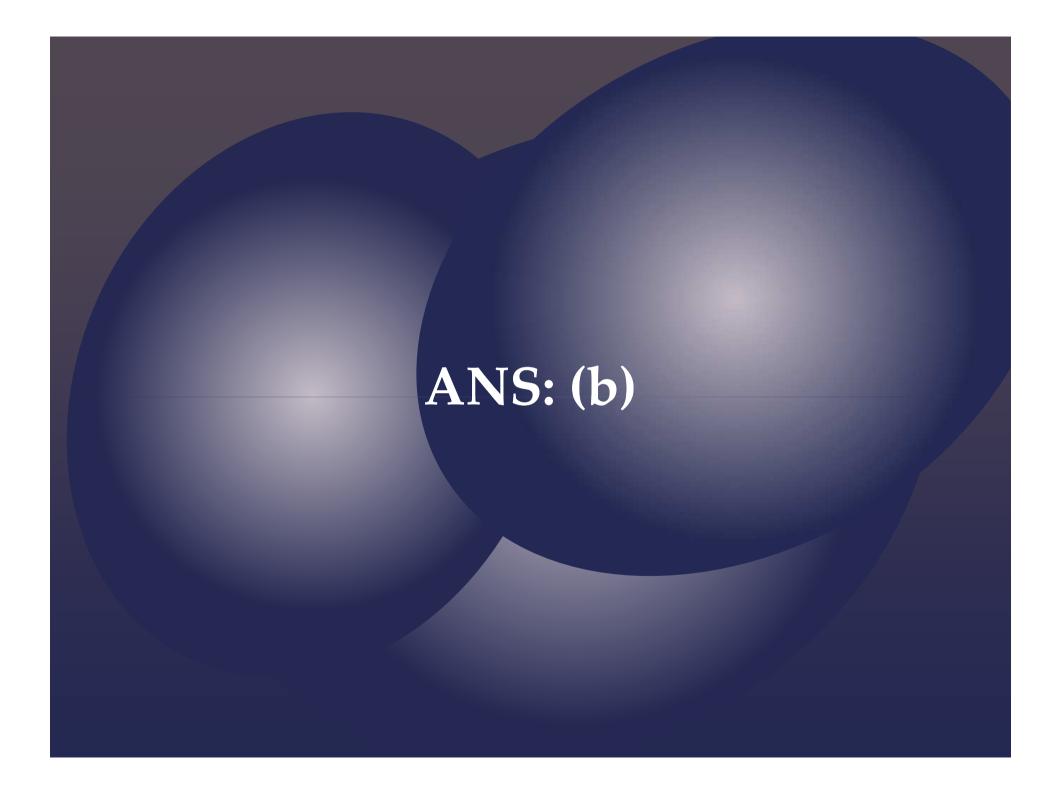
7. Where does the swap space reside?

(a) RAM

(c) ROM

(b) Disk

(d) On chip cache



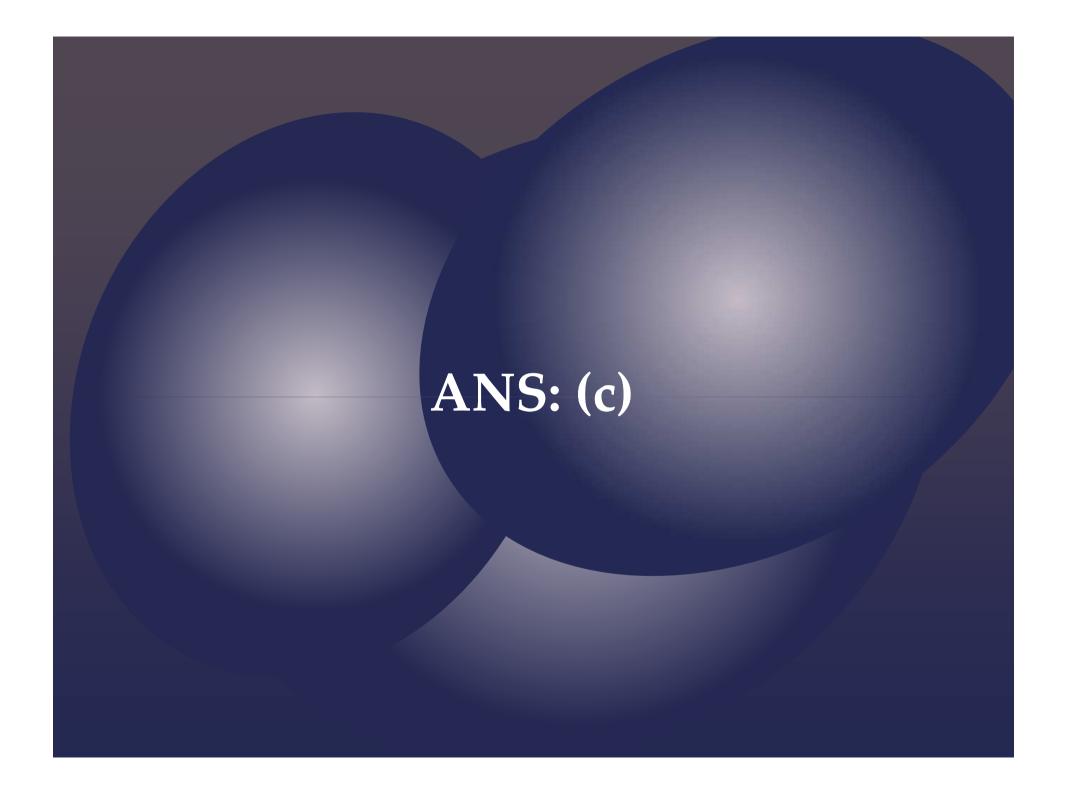
8. Which of the following does not interrupt a running process?

(a) Device

(b) Timer

(c) Scheduler process

(d) Power Failure



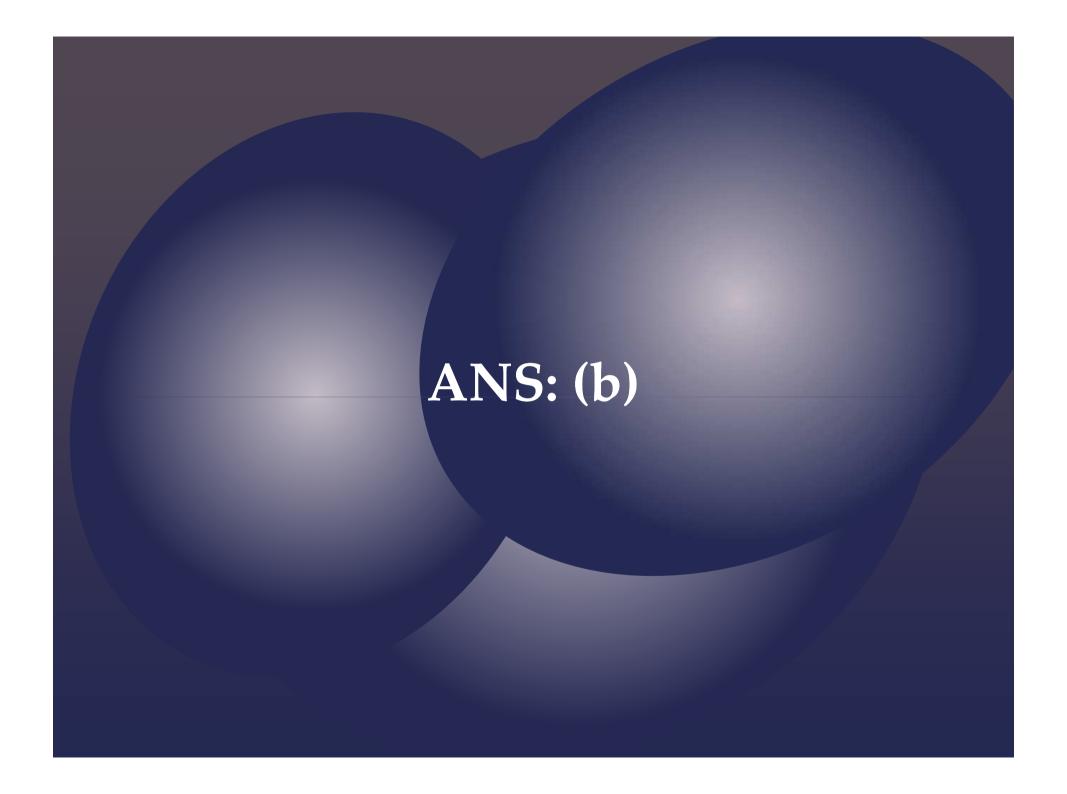
9. Which of the following algorithm is a non-preemptive?

(a) RR

(b) FCFS

(c) Multilevel queue Scheduling

(d) Multilevel queue



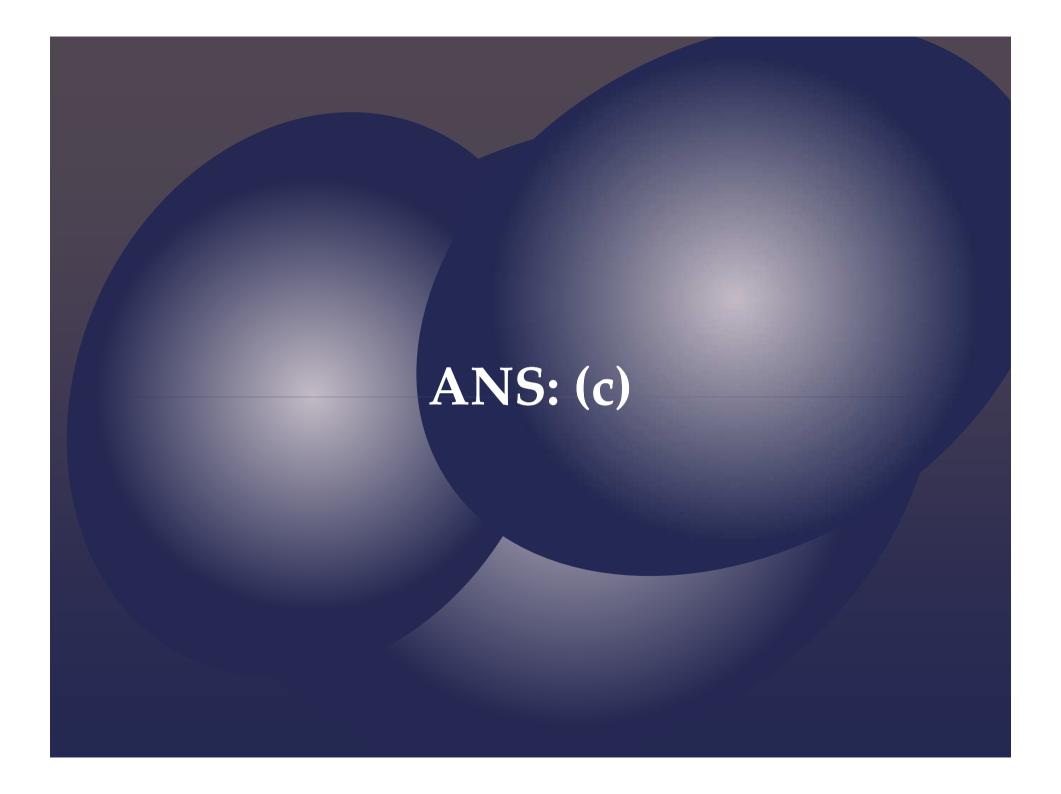
10. Fastest form of Inter process communication provided in UNIX is

(a) Virtual memory

(c) Shared memory

(b) Secondary memory

(d) Main memory

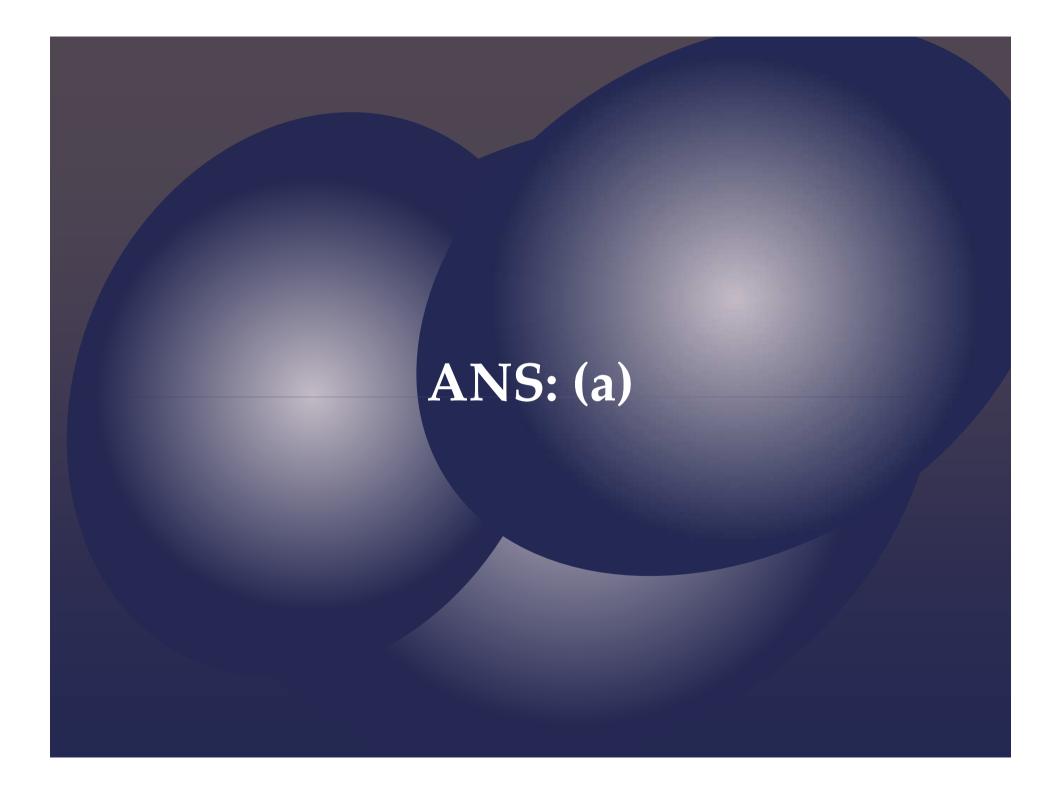


11. All deadlocks involve conflicting needs for (a) Resources

(b) Processes

(c) Users

(d) Programs



REFERENCES:

- * http://girdhargopalbansal.blogspot.in/2013/05/operatingsystem-gate-questions.html
- * https://www.getmyuni.com/gate/computerscience/operating-system/deadlocks