

Methods for handling deadlock -

There are three ways to handle deadlock :

1) Deadlock prevention or avoidance -

>> The idea is to not let the system into deadlock state.

2) Deadlock detection and recovery >> Let deadlock occur, then do preemption to handle it once occurred.

- 3) Ignore the problem all together ->> If deadlock is very rare, then let it happen and reboot the system.
 - >> Ignore the problem and pretend that deadlocks never occur in the system

3 Strategies to handle deadlocks :

1) Preemption -

- >> We can take a resource from one process and give it to other.
- >> This will resolve the deadlock situation, but sometimes it does causes problems.

2) Rollback -

>> In situations where deadlock is a real possibility, the system can periodically make a record of the state of each process and when deadlock occurs, roll everything back to the last checkpoint, and restart, but allocating resources differently so that deadlock does not occur.

3) Kill one or more processes -

>> This is the simplest way, but it works.