Processes
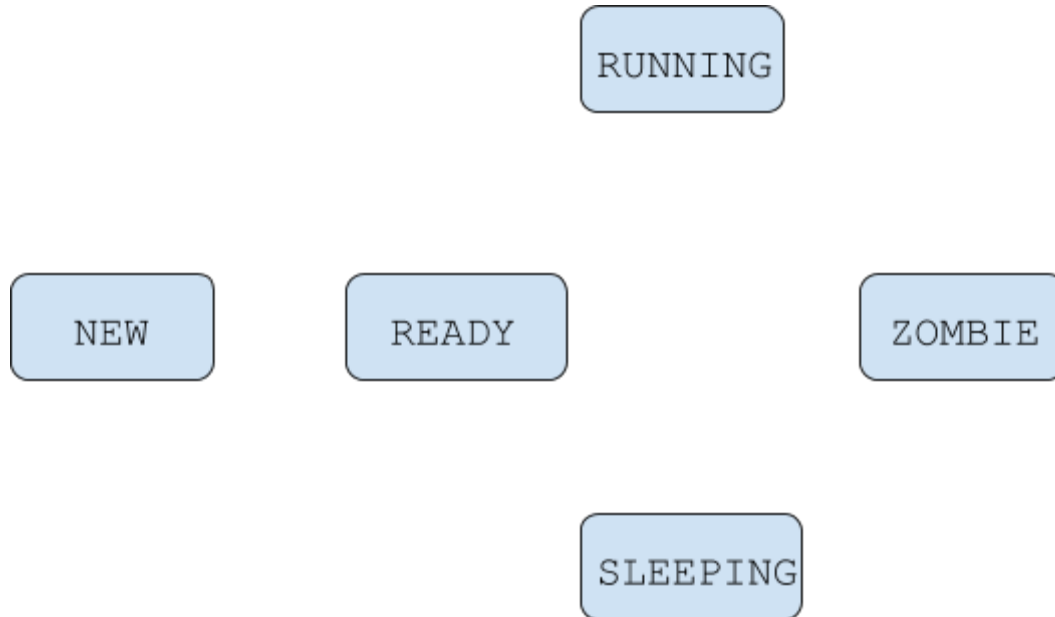
Fill out the process state diagram below. Draw arrows from one state to another with the action that would result in that transition.

RUNNING

NEW   READY   ZOMBIE

SLEEPING

exit and wait are two important synchronization methods in osv. wait can wait for a specific child or any children until it has exited and returns the process id of the child and status of the exited child. exit exits the current process.

What resources need to be cleaned up when a process exits?

When can a process's resources be safely cleaned up? Who will free these resources?

If a parent process calls exit before it's child finishes executing, how does the child process need to be modified to guarantee that someone will wait for the child?