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cs 392 hw 5

3.a Exit and cd are handled as built in commands as they are shell specific commands that do not require separate processes. Forking a cd would cause the child process to change directories while the parent process remains in the same directory causing unwanted behavior. Forking exit would cause the child process to only terminate itself, leaving the parent running which is unwanted behavior as well.

b. killpg(getpid(), SIGTERM); sends a terminate signal to all processes in the process group allowing them to clean up before they terminate. This ensures no child processes remain running after the shell is closed as this would not be wanted.