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ECE 561 (001)

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Project 1 Report

Q1. The maximum number of processes accepted by Xinu is 100 by default. This value is defined by NPROC in **Configuration**. The value defined in **Configuration** will overwrite the value defined in **conf.h** which will in turn it will be set to 8 by **process.h**.
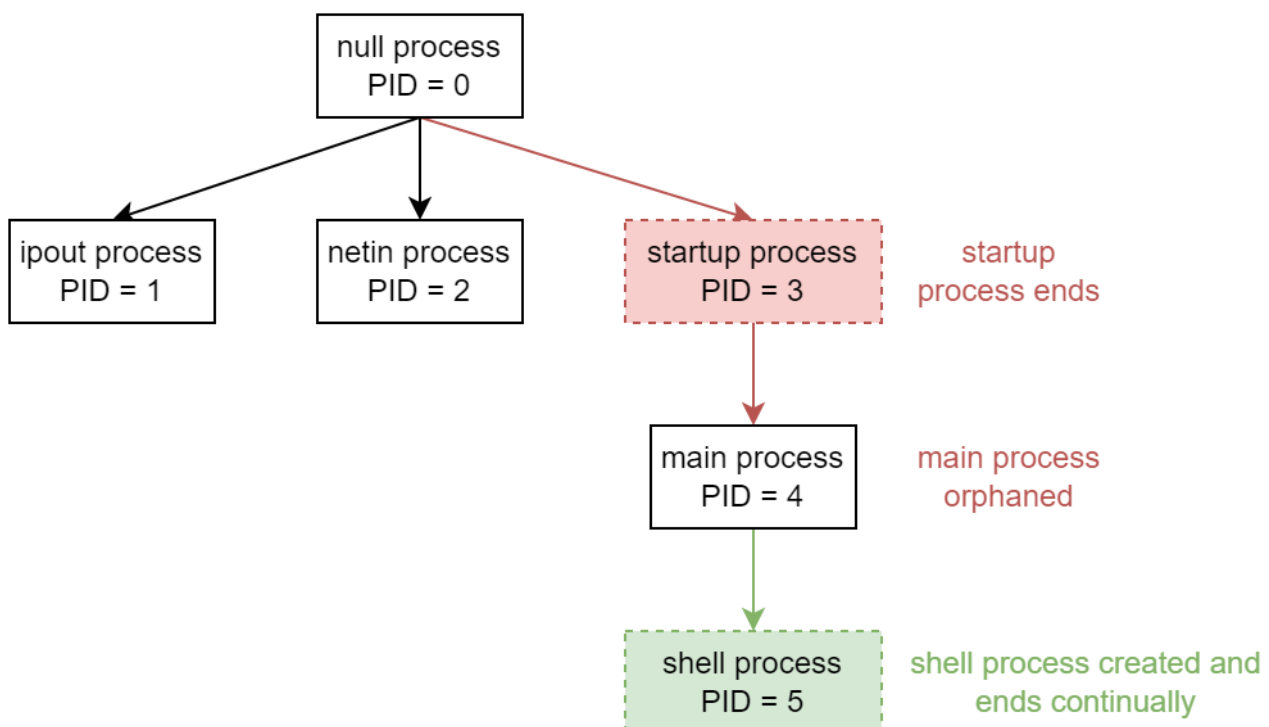
Q2. An inline definition in **process.h** called isbadpid() defines the criteria for an illegal (or "bad") PID. A PID is illegal if it is less than zero, greater than or equal to the maximum number of processes, or if it corresponds to a process table entry that is not currently being used (e.g. its state is PR_FREE).

Q3. The default stack size for a process is 65536 bytes which is defined by INITSTK in **process.h**.

Q4.

Q5. The shell process is created in **main.c** during the main process. It is created once first before the main process enters into a loop and continuously waits for the shell process to end so that it can recreate the shell process and start the cycle anew.

Q6.

Q7. It stalls the parent process until its child process ends execution.