CST 334: Operating Systems

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# OSTEP Chapter 5

**Purpose**. To develop an understanding of the Linux process API, which we will use in building our msh shell.

**Instructions**. Read OSTEP chapter 5 and answer the following questions by downloading and editing [chap5.txt](https://drive.google.com/file/d/1W9w6j4B3bosDSzakINgHaGLL99bWTsXE/view?usp=sharing). I highly recommend spreading your reading out over the week. Some of the concepts take time to absorb.

1. What does wait() return when it succeeds?
2. 0
3. process ID of the terminated child
4. process ID of the parent
5. What happens if wait() is called by a process with no children?
6. wait() returns immediately
7. wait() never returns
8. the behavior of wait() is not defined in this case
9. What is the value returned by fork() to the newly created process?
10. -1
11. 0
12. the process ID of the parent process
13. What does function getpid() return?
14. the process ID of the calling process
15. the process ID of the parent of the calling process
16. a fresh (never before used) process ID.

**Submission**: Submit your edited chap5.txt on iLearn.

**Grading**: Each problem is worth 10 points.