CST 334: Operating Systems

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# OSTEP Chapter 13

**Instructions.** Read OSTEP chapter 13 and answer the following questions by downloading and editing [chap13.txt](https://drive.google.com/file/d/1XiBt1IHq2rW8vbfigurCInF_loIIKhL2/view?usp=sharing).

1. FIgure 3.3 of Chapter 13 shows:
   1. the virtual address space of a single process
   2. the physical address space of a single process
   3. the physical address space of three processes
2. The CPU has a register (the "program counter") that holds the address of the next instruction to be run by the currently-running process. What kind of value is stored in this register?
   1. a physical address
   2. a virtual address
   3. neither
3. (True/False) The values of a function's local variables are stored in the heap region of memory.
4. If I write some C code I can print out the address of a pointer variable. Is the value that is printed a virtual or a physical address?
   1. virtual address
   2. physical address
   3. it depends on the print statement
5. (True/False) If x is a virtual address for one process, then x cannot be a virtual address for another process.

**Submission**: Submit your edited chap13.txt on iLearn.

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