Problem Set 10
Computer Science 240
Fall 2014
Due: Tuesday, December 9

Relevant Reading. Patterson & Hennessy, §5.1 – §5.4.

This problem set consists of exercises from the textbook.

UPDATE: You must mark the edition you are using: Revised Printing of 4th edition (dark green) or original 4th edition (dark blue). These exercises were ever so “helpfully” revised (sometimes in a way that made them more confusing).

1. P&H Exercise 5.2: all parts
2. P&H Exercise 5.10: 5.10.1 – 5.10.4 (a and b)
   - UPDATE: If you need a page table entry for a VPN that is beyond the part of the page table shown, assume the entry is invalid and extend the page table to fit it.
   - When you need a new PPN, use new PPNs starting at 13.
   - If you run into LRU ambiguity (i.e., there are multiple equivalently least recently used options), pick any one you like to replace.
3. P&H Exercise 5.12: all parts