Practice problems for Final. These will NOT be graded.

Problem 1. Do problems 7.1, 7.2, 7.3 on page 628 of PH.

Problem 2. Assume you have a word addressable machine with 2^{20} words of memory. Assume it has a four-way set associative cache that stores a total of eight blocks, where the block size is sixteen words.

(a) Draw a picture of the cache.

(b) What bits are associated to the cache index, to the block, and to the tag.

(c) Where in the cache can word with address

$$10110011010101111101$$

be stored?

Problem 3. Do problem 7.8 on page 628 of PH.

Problem 4. Do problem 7.32 on page 632 of PH.