CS150A Quiz04

Buffer Management

Supposed we have a buffer pool size of 4 pages, and the following access pattern:

A P P L E S A N D B A N A N A S A N D O R A N G E S

Assume that pages are unpinned immediately (ignore pinning).

Q1: What is the number of cache hits if we use an LRU replacement policy?
Assume we are starting from a cold (empty) cache.

Q2: What is the number of cache hits if we use an MRU replacement policy?
Assume we are starting from a cold (empty) cache.

Q3: What is the number of cache hits if we use a CLOCK replacement policy?
Assume we are starting from a cold (empty) cache.

Q4: What is the number of set reference bits at the end of Q6?