

Question 2

Consider a cache for a FIFO queue in a network switch, router or network interface card, built from the same SRAM and DRAM.

- (a) Explain how it works.
- (b) How large does the block size, b , need to be so that it won't overflow?
- (c) How about c , so that the “head cache” won't underflow?
- (d) What problems do we run into if we want to build a cache for N FIFO queues, instead of just 1?