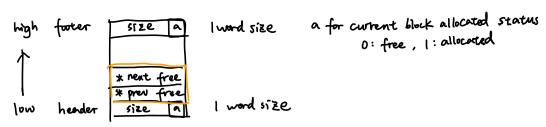


Explicit List introduce a free-list to store the free blocks

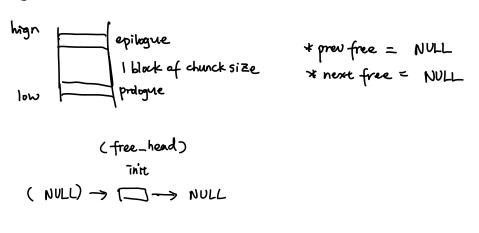
allocated block (same as previous)



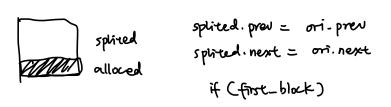
at free block design



initializing

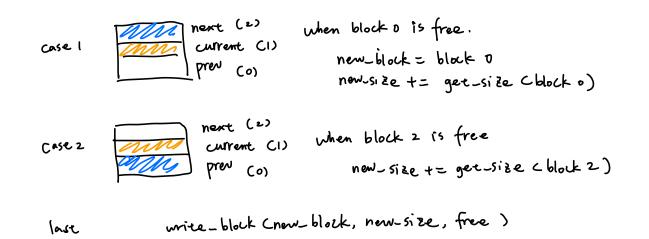


malloc

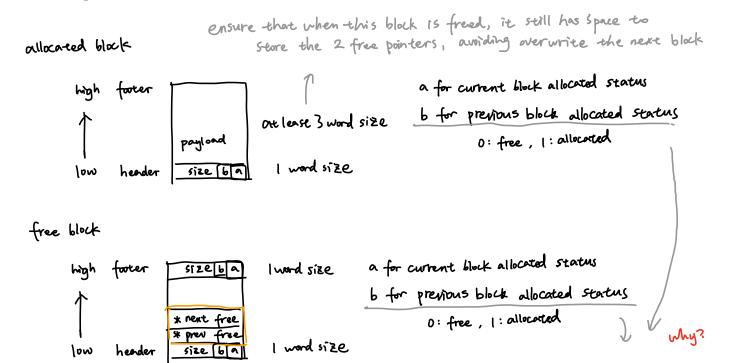


free opinized





Eliminating footer



when coalescing, we need to search previous block's alloc status.

considering we do not have footer, and we are currently at the heap start, which means that the previous' block is prologue, where we could not access it's header for Info, so we need a bit to record previous's startus.