free_list

free_list

(originally empty)

☐ = contains header info (size and *next)

free_list

(after initial call to malloc)

☐ = 16 bytes

size bytes (size is a multiple of 16)
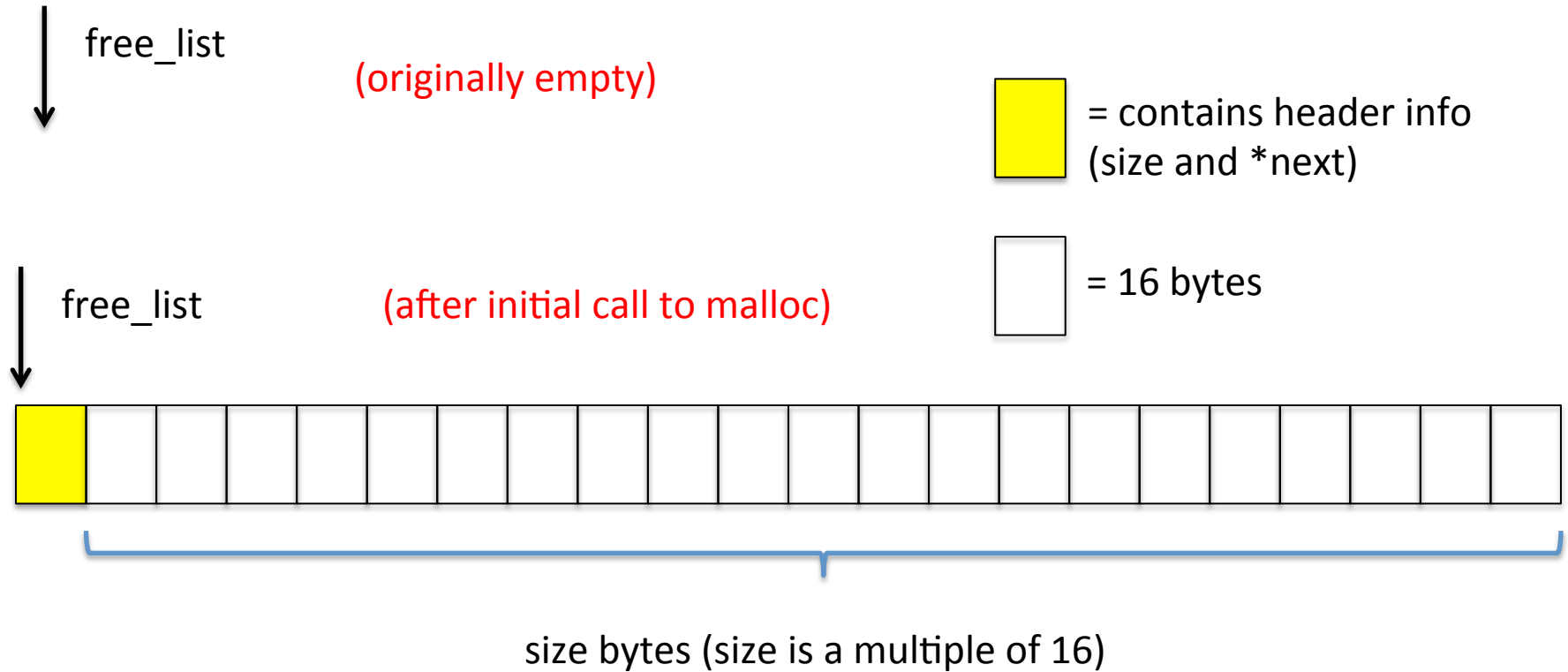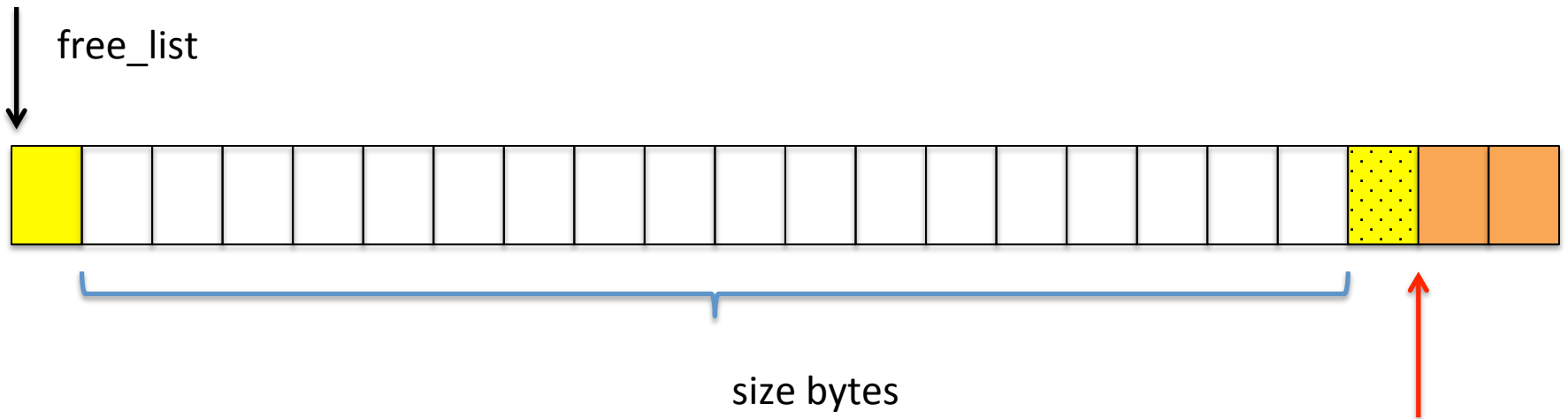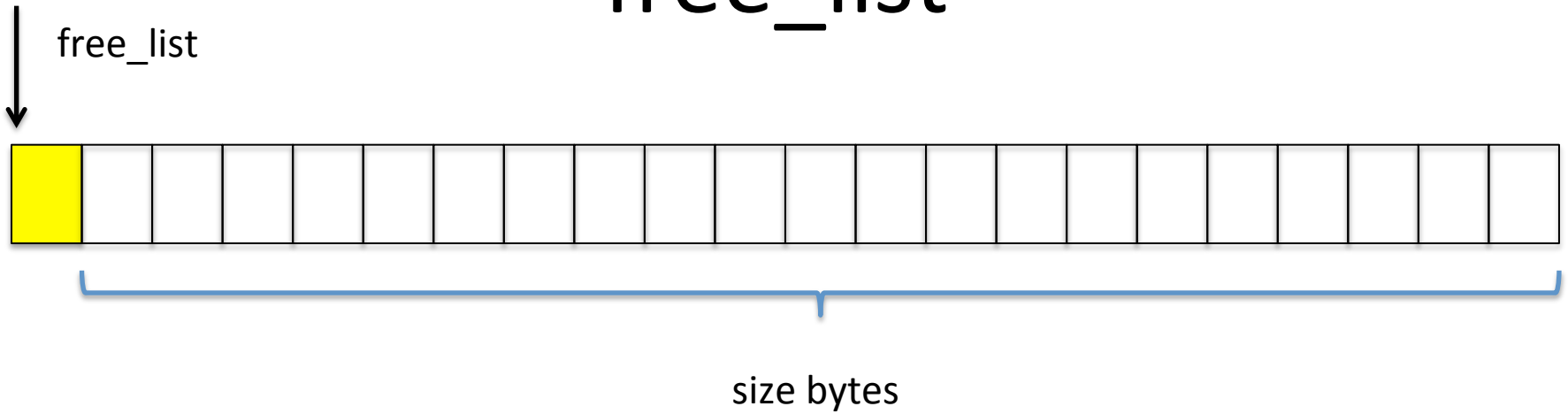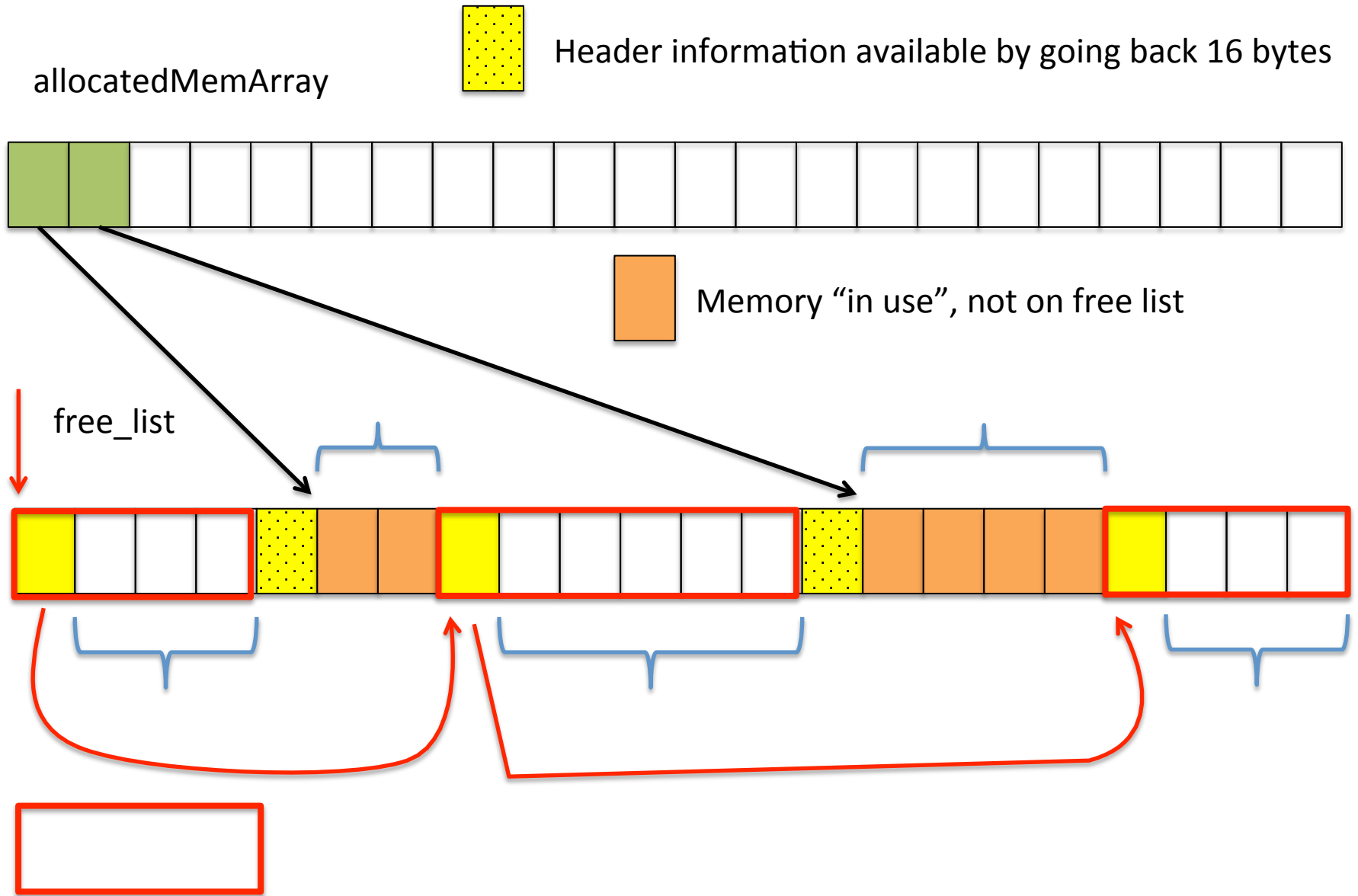
free_list

size bytes

free_list

size bytes

Return pointer from getmem, store in allocatedMemArray

allocatedMemArray

Header information available by going back 16 bytes

Memory "in use", not on free list

free_list

Individual nodes on the free list, connected like a linked list