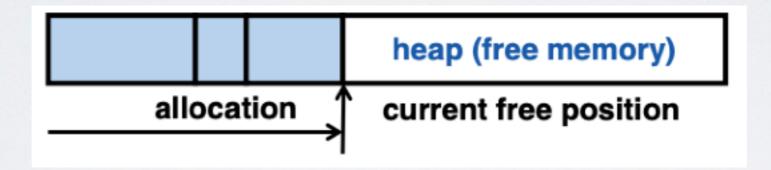
Heap allocation more concretely

- → Manage contiguous range of logical addresses
 - malloc(size) returns a pointer to a block of memory of at least size bytes, or NULL
- free (ptr) releases the previously- allocated block pointed to by ptr

Why is heap allocation hard?

- → Satisfy arbitrary set of allocation and frees.
- ✓ Easy without free: set a pointer to the beginning of some big chunk of memory (heap) and increment on each allocation



Problem: free creates holes (fragmentation)
Lots of free space but cannot satisfy request!

