They are C code

HEAP_START

HEAP_END

Wey idea: On each malloc or free, store metadata about allocations

Metadata is stored on the heap.

Malloc will create "blocks" on the heap.

Each block will have a special first 8 bytes called "header"

Header stores (a) the size of the block (b) if block is free or "busy"

altocated

size tfee.

Pointer returned from malloc

How to represent size + free in 8 bytes? Invariant: all blocks start on a 8 byte boundary (all so all sizes end in 000	sizes are 8n)
Size is 64-bit unsigned number Free/busy is the LSB=1 => busy LSB=0 => free busy blocks 177	malloc (16) malloc (20) - round up to 24 - then write header 25 (side rote: realloc(24) ought to be in-place)

