Here's how this works:

- 1. A static character array is used for the memory memory_heap. It has a fixed size, given by the 'HEAP_SIZE' constant.
- 2. Blocks, or chunks of memory, are created during malloc calls. They are stored in a linked list.
- 3. When free() is called, the list is iterated through and if the given pointer points at a block that was allocated by malloc(), we free() it.
- 4. Upon exit, the list is iterated through to check for memory leaks.