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MALLOC ReadMe

In this assignment, we implemented our own malloc() and free() library calls as presented in lecture and in the textbook. Some of the extra features that we included are error detectors and memory leak function. The malloc function first created a space in the beginning of the memory block and then goes to the next if the current one is taken or too small. Then the free function returns the allocated block to the memory, making it available for later malloc calls. We check to see if we malloc memory to a null pointer then we print out an error statement if this is true. Also, if we call free without allocating block in memory first, then we print an error statement. Also, we print out error messages for mallocing without freeing, freeing without mallocing and/or freeing the same pointer twice without remallocing. The memory leak function basically is called at the end of the function informing the user that there was a memory leak because you did not free a block in memory that you allocated.