

AP(H) Exercise 1 Report

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Both mentry.c and mlist.c are compiling with no issues, errors or warnings and are linking to finddupl.c (the compilation process used was: `gcc -Wall finddupl.c mentry.c mlist.c -o out` and then executed with `./out < S.txt`). The mentry.c is working as intended, has no memory leaks, and no known bugs. The mlist.c is working on the provided S.txt file with no problems, and has been tested with 1000, 10k, 100k and 1M entries to check if the dynamic hashtable is working. Everything was executed successfully. The only known small bug with mlist.c is when ran with valgrind. It returns 1 error with a very small memory leak that is way below 1% of the actual allocated memory. An example with the 1k entries is 32 bytes out of 1 500 000+ bytes not freed. That is the only issue on valgrind, otherwise mlist.c is working correctly and gives no errors when executed without valgrind.