Assignment#7

Problem 7.2: memory allocation profiling using library interposition

- a) The amount of bytes with everything combined is: 3018796 (including free calls). The amount of bytes without free calls is 1770789.
 The amount of bytes of free calls is 1248010.
- b) Function, asize_min, asize_mean, asize_max Malloc, 1, 387.03464566929136, 65536 Free, 1, 393.8172925213001, 65536 Calloc, 32, 23241.333333333332, 262144 Realloc, 6, 1584.7435897435898, 12441
- c) Count | Bytes

d) Yes there were a lot of cases where malloc and calloc returned the same pointer. This is a very common and expected occurrence since when you free() a chunk, the allocator usually keeps that chunk on a free list. A later malloc() or calloc() for the same size will often reuse that freed chunk and return the same pointer.