Question 1

The value of all the variables that the sizeof function returned was 4.

Int variables have a size of 4 bytes in C

Int\* is a pointer and all pointers have a size of 4 bytes in c

While a double variable is 8 bytes in C, again the pointer will only be 4 bytes as it only contains an address

This also applies to a pointer to a pointer such as char\*\*

Question 4

Traversing a linked list can be fairly memory intensive. For each element in the list you must create a new element a check to see if that is the end of the list. If it is not you continue doing so until it is.

C does not have garbage collection like other languages such as java. Implementing simple garbage collection to delete non- referenced variables could make it less memory intensive.