Complete these activities to the best of your abilities without using the internet or your computers. You will not be graded on correctness of your answers or on syntactic correctness. This exercise is to see where your c++ memory is.

$1 \quad C++ \& Objects Questions$

1. What is an object?

2. What is a struct? How are objects and structs different from one another?

3. Define a struct Node to be used in a linked list.

4. When we are writing programs in c++, what purpose does a header file serve?

5. What is the difference between the following two variable declarations? int x = 2; and int &y = x;

6.	What are the differences between the main definitions int main() and int main(int argc, char* argv[])?
7.	Why do you think that these two ways to define main exist?
8.	What type does the main function return?
9.	What value do you think that the main function returns if you forget a return statement? What does this value mean?
10.	Recall that $cout$ in the $iostream$ library is used to print text to standard out. Write a $c++$ helloworld program.