# Pointers Worksheet

1. Create 3 integer variables.

Assign the numbers 10, 22, 99 to them.

Print the address and value of each variable.

2. Create two integer variables. Using the address of them, calculate how far apart they are in memory.

3. Create a double and assign it the value 1 billion. Create a pointer to that variable and change the value from 1 billion to 7 billion.

4. Allow the user to enter two numbers. Display the address of the biggest number.

5. Create an array of 5 structures (e.g. vectors from last week) … display the memory locations of each, and calculate the size of a structure from these addresses.

6. Investigate and write some example code for:

* malloc
* realloc
* free

These will not be in the exam, but the mechanisms are useful to understand and will help with your understanding of pointers.