**C++ Activities and Lecture Notes – Chapter 7**

**Pointers**

What is a pointer?

What do they do?

How do I make one?

Quick pointer demo:

int i = 3;

int \* pi = &i;

cout << i;

\*pi = 4;

cout << i;

Code Check: what type of variable is pj?

int \* pi, pj;

How should we write these declarations if we intend both to be pointers?

Fun and games with values, pointers, and references: vswap, pswap, rswap demo

**Pointers and Arrays**

What are the two defining characteristics of an array?

What are the two consequences of those defining characteristics?

How is an array name like a pointer?

Technical details:

int myArray[3]; is the same as int const \*myArray = new int[3];

In other words, array names are const pointers.

Arrays and pointer arithmetic demo