C++ Review

CS 165 – Object Oriented Software Development

Macbeth – Lesson 1.2

Agenda

- Opening Prayer
- Spiritual Thought
- Q&A
- Loops
- Arrays
- Functions
- Introduce Assignment #1
- Looking Ahead

Spiritual Thought

"Somewhere in your quest for spiritual knowledge, there is that "leap of faith" as the philosophers call it. It is the moment when you have gone to the edge of the light and stepped into the darkness to discover that the way is lighted ahead for just a footstep or two. 'The spirit of man' … as the scripture says, indeed, 'is the candle of the Lord' (Prov 20:27)."

- Boyd K Packer

Loops

FOR	WHILE-DO	DO-WHILE

```int sum = 0;```
 ```for (int i=1; i<11; i++)```
 ```{```
 `    `sum += i;
 ```}```
	```int sum = 0;```
	 ```int i = 1;```
	 ```while (i < 11)```
	 ```{```
	 `    `sum += i;
	 `    `i++;
	 ```}```
		```int sum = 0;```
		 ```int i = 1;```
		 ```do```
		 ```{```
		 `    `sum += i;
		 `    `i++;
		 ```}```
		 ```while (i < 11);```

Ponder for 1 minute and convince yourself that all 3 of these code blocks will result in sum = 55.

Loops

FOR	WHILE-DO	DO-WHILE

```int sum = 0;```
```for (int i=1; i<1; i++)```
```{```
```   sum += i;```
```}```
	```int sum = 0;```
	```int i = 1;```
	```while (i < 1)```
	```{```
	``` sum += i;```
	``` i++;```
	```}```
		```int sum = 0;```
		```int i = 1;```
		```do```
		```{```
		``` sum += i;```
		``` i++;```
		```}```
		```while (i < 1);```

The condition has been changed from i<11 to i<1.

Do all 3 code blocks still have the same behavior?

Looking Forward

- Friday
  - 01 Prepare – Submit Checkpoint A (*)
  - 01 Prepare – Submit Checkpoint B (*)

- Monday
  - 01 Prove – Submit Assignment

(*) – For the first week these can be turned in as late as Friday 11:59pm.