

Agenda

- Opening Prayer
- Scripture
- Q&A
- Kahoot!
- File I/O
- Introduce Structures
- Looking Ahead



Spiritual Thought

D&C 50:22

Wherefore, he that preacheth and he that receiveth, understand one another, and both are edified and rejoice together.



Groups

Please sit with your group each week (starting today):

Team 1 Joshua Dean Lucas Freitas Shawn Hillman Jai Fuller	Team 2 Teddy Gehoski Lauren Reed Trey McLaughlin Benjamin Moffett	Team 3 Makenzie Allen Ryan Lavin Christian Martinez Child Makella
Team 4 Jeong Geun Kim Daniel Wright Dylan Bullock Christopher Lujo	Team 5 Joseph Franks Brandon Camacho Matthew Malloy Jason Meziere Bron Neibaur	Team 6 Heather Hanks Emily Togagae Josh Richardson Bryan Heder Britt LeFevre
Team 7 Kyle Walker Jordan Hakes Mauricio Kiyama John Larson Jim Tang		© 2017 B

Review Last Project

- What was the hardest part?
- What lessons did you learn?
- When I share my code on the screen, please do not take pictures ©



File I/O

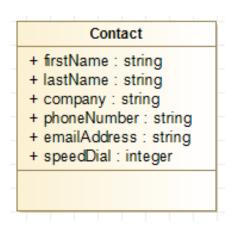
	Input / Reading	Output / Writing
Library for File I/O	#include <fstream></fstream>	
Create File Stream	<pre>ifstream fin("a.txt");</pre>	ofstream fout("b.txt");
Failure Opening a File	fin.fail()	fout.fail()
Read/Write 1 word or value	<pre>fin >> text; NOTE: You can use this in your while loop. It will return false if EOF is reached. Example: while (fin >> text) { // Do stuff }</pre>	fout << text;
Read/Write 1 line	<pre>getline(fin,text);</pre>	fout << text << endl;
Close File Stream	fin.close();	<pre>fout.close();</pre>



Structures

A <u>structure</u> is a custom data type that allows you to organize data into collections that make sense for your application.

```
struct Contact
{
    string firstName;
    string lastname;
    string company;
    string phoneNumber;
    string emailAddress;
    int speedDial;
};
```





Structures

Structures can be accessed just like any other data type

Contact

- + firstName : string
- + lastName : string
- + company : string
- + phoneNumber : string
- + emailAddress : string
- + speedDial : integer

Native Data Types	Structures
string teacherPhoneNumber;	Contact teacher;
string friendEmails[100];	Contact friends[100];
<pre>bool addContact(string firstNames[], string lastNames[],, int numContacts, string newFirstName, string newLastName,)</pre>	bool addContact(Contact contacts[], int numContacts, Contact newContact)
bossCompany = "Google"	<pre>boss.company = "Google";</pre>
*momSpeedDial = 1;	mom->speedDial = 1;

Looking Forward

- This is a summary of what is shown in I-Learn.
- Tuesday
 - 02 Prepare Submit Checkpoint A by 11:59pm
- Wednesday
 - 02 Prepare Submit Checkpoint B by 11:59pm
- Monday
 - 02 Prove Assignment (Digital Forensics) by 11:59pm

