

Agenda

- Opening Prayer
- Scripture
- Q&A
 - Review Assignment
- Modularization
- Looking Ahead



Scripture

Moroni 7:35,37

"[H]as the day of miracles ceased?

Behold I say unto you, Nay; for it is by faith that miracles are wrought; and it is by faith that angels appear and minister unto men."



Cohesion

- 1. Functional The function is related to a single task. This is ideal.
- 2. <u>Sequential</u> The function contains function calls that must occur in a certain order such that the results of the previous call are used in the next call. Very common.
- 3. Communicational All tasks in the function are performed on the same data.
- 4. <u>Procedural</u> Same as sequential except the results of the previous all are not used in the next call.
- Temporal All tasks in the function need to be done at the same time but are un-related.
 Common for initialization.
- Logical All tasks in the function do the same kind of things but they are not related to each
 other.
- 7. <u>Coincidental</u> No relationship between tasks in a function. Not ideal.



Coupling

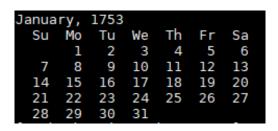
- When passing data between functions:
 - Inputs Identify all inputs that <u>are needed</u> by the function (usually passed by value)
 - Outputs Identify the outputs that <u>are needed</u> by the calling function (usually passed by reference or via the "return").
 - Never use global variables!



Calendar

Requirements

- Ask the user for a month and a year.
- The month be [1-12] and the year must be greater than or equal to 1753.
- Display a calendar that looks like this:



- You must take into account leap year (366 days due to February having 29 days):
 - Every 4 years except on centuries (ie., 1800, 1900, 2000)
 - Exception: Every 400 years is a leap year (ie., 1600, 2000)
- January 1, 1753 was a Monday



Looking Forward

- Before Class on Wednesday
 - Read Section 2.1 Debugging
 - Assignment 2.1
- Monday (not Saturday this week)
 - Project 05 is due Please turn hardcopy with your name on it in class

