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John Shuler

GEOS597 Homework #1: GIT, Markdown and MATLAB

Due: 9/02/2016

Part 1

Github account made with email address: jbshuler@gmail.com Could not create branch; Github prevented me from pushing changes to repository. I attempted on school machines as well as my own computer.

Part 2

To ensure that a single student is paired with each of nine other students for nine assignments, simply number students 1 through 10. If the student in question is #1, then his/her partner for each week will be as follows:

Homework Assignment # - Student # of Partner For That Week: 1-2, 2-3, 3-4... 9-10

Determining how to ensure that ALL ten students for ALL nine assignments have a unique partner proved more than I could handle. And I tried. A lot. I arranged ten uniquely numbered students in a circle, used grids, etc. and nothing worked.

Parts 3 and 4

1. General Variables

With the notable exception of structures, variable names should be mixed case.

e.g. wayPoints or unprocessedData

2. Variables representing the number of objects:

These should contain the prefix *n* unless specifying number of rows, in which case the name should contain *m*. These are helpful for clearly denoting that the variable has a discrete value.

e.g. nComputers or mRows

3. Plural variable

The best practice is to make all variables singular and to use the suffix Array to denote plurals

e.g. pit and pitArray

4. Variables representing a single entity number:

These variables should contain the suffix No. They can also contain i to indicate that the variable is an iterator. These help further denote the nature of a variable.

e.g. partNo or iSample

5. Boolean Variables:

Boolean variables are used to denote a statement as True or False. They should never be negative. These can be used to determine values above or below a threshold.

e.g. isOver or isNegative

6. Variables representing named constants:

These variables are helpful for recalling single values repeatedly. They should be in all caps, with underscores between words.

e.g. PLANCKS_CONSTANT or AIR_TEMPERATURE

7. Structures and Functions

Structures can be used to more efficiently organize data. Their names should begin with a capital letter. Functions are pieces of code that can be called to accept inputs and produce outputs. Their names should be all lower case.

e.g. Streamflow or computeevaporation

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