Summer ’11 CIS 199 Midterm Review

The exam will involve writing an in-class app using App Inventor

The exam will be open note (and Internet)

Partial credit will be awarded for partial solutions

Topics:

- Basic components: Button, Canvas, Clock, Label, TinyDB
- Media components: Sound
- Animation components: Ball, ImageSprite
- Sensor components: LocationSensor, OrientationSensor
- Screen Arrangement components: HorizontalArrangement, TableArrangement, VerticalArrangement
- Definition blocks: Procedure, Variable
- Text blocks: Text, Join, Make Text, Length
- Math blocks: Number, >, >=, <, <=, =, not =, +, -, *, /, Sqrt, Random Fraction, Random Integer
- Logic blocks: True, False, And, Or
- Control blocks: If, If/Else, Choose
- Color blocks: All 😊

Sample questions:

1. [10] Create a new App Inventor app called MidtermReview. Add a Canvas named DrawCanvas to the project with width “Fill Parent” and height “300”.

2. [20] Create a Procedure block named drawDiagonal which takes two arguments: color and lineWidth. When called, the procedure should draw a line from the bottom-left corner of DrawCanvas to the top-right corner of the canvas using the color and line width specified by the parameters.

3. [10] Add a Screen1.Initialize block which calls drawDiagonal(Green, 10) and then calls drawDiagonal(Yellow, 6).