**2013 Question 4: SkyView (9 points)**

| Total Scored out of 9 |  |
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**Part A: SkyView constructor (5 points)**

Intent: Construct SkyView object

+1 Constructs correctly-sized 2D array of doubles and assigns to instance variable view

+1 Initializes at least one element of view with value from element of scanned (must be in the context of loop)

+1 Places consecutive values from scanned into at least one row of view in original order

+1 Places consecutive values from scanned into at least one row of view in reverse order

+1 On exit: all elements of view have correct values (no bounds errors on view or scanned)

**Part B: getAverage (4 points)**

Intent: Compute and return average of rectangular section of view, specified by parameter

+1 Declares and initializes a double accumulator

+1 Adds all and only necessary values from view to accumulator (no bounds errors)

+1 Computes average of specified rectangular section

+1 Returns the computed average (computation must involve view)

**Question-Specific Penalties**

-2 (v) Consistently uses incorrect array name instead of view/scanned