## AP® COMPUTER SCIENCE A 2013 SCORING GUIDELINES

## Question 4: SkyView

5 points

Intent: Construct SkyView object from 1D array of scan data	
+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 context of loop)
+1	Places consecutive values from scanned into at least one row of view in original order

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)

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

+1 Declares and initializes a double accumulator

SkyView constructor

- +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**

Part (a)

+1

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