AP® COMPUTER SCIENCE A 2015 SCORING GUIDELINES

Question 1: Diverse Array

Part (a)	arraySum	2 points
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Intent: Compute and return sum of elements in 1D array arr, passed as parameter

- +1 Accesses all elements of arr, (no bounds errors on arr)
- +1 Initializes, computes, and returns sum of elements

Part (b)	rowSums	4 points
- G- U (20)	I OWD CITED	1 points

Intent: Compute and return 1D array containing sums of each row in the 2D array arr2D, passed as
parameter

- +1 Constructs correctly-sized 1D array of ints
- +1 Accesses all rows in arr2D (no bounds errors on arr2D)
- +1 Computes sum of row in arr2D using arraySum and assigns to element in 1D array
- +1 Returns 1D array where kth element is computed sum of corresponding row in 2D array for all rows

Part (c) isDiverse 3 points

Intent: Determine whether arr2D, passed as parameter, is diverse

- +1 Computes and uses array of row sums from arr2D using rowSums
- +1 Compare all and only pairs of row sums for equality (No bounds errors on row sums array; point not awarded if no adjustment when compares any row sum with itself)
- +1 Returns true if all compared row sums are different and false otherwise (point not awarded for immediate return)

Question-Specific Penalties

- -1 (g) Uses getLength/getSize for array size
- **-1** (y) Destruction of persistent data (arr *or* arr2D)