**2021 International Question 2: MatrixOp (9 points)**

| Total Scored out of 9 |  |
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**Part A:** diagonalOp **(4 points)**

+1 declares, initializes, and returns an accumulator

+1 loops through all necessary elements of matA or matB (no bounds errors)

+1 calculates product or matA and matB

+1 sums product of matA and matB only when row equals column

**Part B:** expandMatrix **(5 points)**

+1 creates new 2D matrix with twice as many rows and twice as many columns as matA

+1 loops through all necessary elements of matA or matB (no bounds errors)

+1 identifies the correct row and column of matA

+1 assigns element of matA to the correct element location of new matrix

+1 Returns the 2D matrix