(25) 4. a) Write a subprogram that accepts an array X with K elements (K ≤ 50) and calculates the sum XSUM of the elements and the sum XSUM2 of the squares of the elements of X and returns XSUM and XSUM2 to the calling program.

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(15) b) Consider a program in which we have defined an array A with 50 elements and an array B with 40 elements. Use the above subprogram to calculate the ratio R1 that equals the sum of the squares of the A's divided by the sum of the squares of the B's and the ratio R2 that equals the sum of the A's divided by the sum of the B's. You do not need to write a complete program here—only the statements required to compute R1 and R2.

