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Finals Exams #5 Pseudocode

FE #5 Design the logic solution (PSEUDOCODE and PROGRAM) that allows a user to enter 5 number elements each for 2 arrays. Then swap and displays all of the number elements in the arrays.

PSEUDOCODE

main()

START

1. DEFINE constant for number of arrays, M
2. DEFINE constant for number of elements, N
3. INITIALIZE the number array, numArray[M][N]
4. FOR i = 0 to M – 1 by 1 do
   4.1. FOR j = 0 to N – 1 by 1 do
      4.1.1. PROMPTS and GETS current number to store in the array, numArray[i][j]
   4.2. ENDFOR
5. ENDFOR
6. CALL swap the numbers of the two arrays, swapNum(numArray)
7. CALL print the swapped arrays, printSwappedNum(numArray)

END

swapNum(numArray[M][N])

START

1. FOR i = 0 to N – 1 by 1 do
   1.1. SET the temporary value to be equal to the current element of the first array, temp = numArray[0][i]
   1.2. SET the current element of the first array to be equal to the current element of the second array, numArray[0][i] = numArray[1][i]
   1.3. SET the current element of the second array to be equal to the temporary value, numArray[1][i] = temp
2. ENDFOR

RETURN

printSwappedNum(numArray[M][N])

START

1. FOR i = 0 to M – 1 by 1 do
   1.1. DISPLAY the current array number, i+1
   1.2. DISPLAY "{"
   1.3. FOR j = 0 to N – 1 by 1 do
      1.3.1. CHECK value of j
      1.3.2. IF j != N – 1 THEN
         1.3.2.1. DISPLAY the current element of the current array, numArray[i][j]
         1.3.2.2. DISPLAY ", "
      1.3.3. ELSE
         1.3.3.1. DISPLAY the current element of the current array, numArray[i][j]
      1.3.4. ENDIF
   1.4. ENDFOR
   1.5. DISPLAY "}"
2. ENDFOR

RETURN