

Computer Science 12 AP

Array Coding 02

**Code the following. Make sure to test out a few times to make sure that your routine is working properly! The solution to these problems is provided in the sample project Array Samples.
(the size of the arrays may be different in the solution)**

[01]

Create an array of sequential integers that include from 0 to 7 (0,1,2,3,4,5,6,7).

[02]

Write the code that would swap the first two values of the array.

[03]

Print out the array to verify that your swap worked.

[04]

Write the code that would randomly select two valid positions in the array and swap the values at these two positions.

So, if the random positions selected were 3 and 5, the array would look like (1,0,2,5,4,3,6,7) ((remember that the 0 and 1 have already been swapped earlier!))

[05]

Write the code that would randomly shuffle the entire array. To do this, all you have to do is use a loop to make [04] repeat many times. Print out the array afterwards to make sure that you still have all of the original numbers and confirm that they are shuffled.

[06]

Change your array size to include a much larger set of numbers and confirm your code still works.