Computer Science 12 AP

Array Coding 03

When coding the following problems

- create any arrays and fill them with random or non-random 'dummy' data
- print out your arrays to confirm results
- run several times to make sure your routines are always working

[01 – Totally Cool]
Print out the sum of an integer array.

[02 – Duplicated]
Given an array of integers, determine whether or not the first number in the array appears again in the array.

[03 – Good Grades]
Given an array of marks that range from 1-100, print out what percentage of the class passed the course (50+ passes!).

[04 – Reverse!]
Given an array of integers, reverse the array so that the original order of numbers is completely backwards.
Hint: swap code could be useful here

[05– Fill Er Up]
This problem requires UserInput.
Create an array that has a length of 8.
Use a loop to ask the user to enter 8 grades in the range 1-100.
The grades entered should be stored in the array in the order entered.
After the user has entered the grades, calculate their average mark.

[06 – Pair Up]
Create an array of length 10 and fill with random values.
Create a second array of length 10 and fill with random values.
Create a third array that is large enough to hold the numbers from the first array and second array.
Put all the numbers from the first and second array into the third array.

[07 – Bonus Fibonacci]
Go look online and find out what the Fibonacci sequence is.
Create an array that is 25 in length.
Write the code that would fill the array with the first 25 numbers in the Fibonacci sequence.
Hint: learn the pattern and use a loop
Warning: Do not just fill the 25 values in the array manually (cheating!)