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4/17/2018

Mobile Development IOS Assignment 1

Documentation

Software Design

I added 6 classes to my application. These classes are

SelectionSort: This class initializes an integer array and arrayView. It uses the selection sort algorithm to sort the passed in array.

QuickSort: This class initializes an integer array and arrayView. It uses the quick sort algorithm to sort the passed in array.

InsertionSort: This class initializes an integer array and arrayView. It uses the insertion sort algorithm to sort the passed in array.

MergeSort: This class initializes an integer array and arrayView. It uses the merge sort algorithm to sort the passed in array.

ArrayView: This class sets the color and fills the visual representation of the data being sorted.

ViewController: This class handles all the logic of the application. It initializes two arrayViews. It handles actions and outlets for all four segmented controls. It handles the logic for preshuffling, shuffling, and erasing data. It also handles the information for drawing shapes.

Avoiding Cyclic Strong References

I avoided Cyclic Strong References by not having two strong references reference each other in a cycle. My strong references do not form any cycles. I also declared variables to be weak if I was unsure the instance of the references class had a strong reference to the class I was using.