HIT3329 / HIT8329 Assignment 1 Learning Guide

Task 1

Initializing the Counter

The variable _nextIndex was set to a garbage value as follows:

```
_nextIndex = (NSInteger)self.imageHistory;
```

The NSInteger cast hid this mistake from the compiler. The value you got was a large number because it was the memory address of the pointer.

Students were asked to repeat this if:
a) they left the erroneous cast in, because it should be initialized to a meaningful value
b) they set it to the count of the array self.imageHistory, because the array was unused, so this was not safe to use as it might change when implemented).

Checking Bounds

In the method -`_nextImageFilename` you needed to reset _nextIndex when it equalled the number of images in the folder. Hard coding a number was not acceptable.

A common mistake was to initialize the value of `_nextIndex` to 0 when it exceeded the number of images in the folder. This is incorrect because the integer value of the memory address could potentially be less than the number of images in the folder.

```
// BUGGY: might never be run, depending on memory address' value
if (_nextIndex >= [imagePaths count]) {
  _nextIndex = 0;
} ...
```

Task 2

You just had to write up the points fixed as described in task 1, acknowledging the erroneous init value for _nextIndex and the bounds checking in -_nextImageFilename

Task 3

This was easy and most everyone described XIBs accurately enough to pass the first time.