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HW1

1. Explain what is wrong with the given code. Describe fault precisely by proposing a modification to the code.
2. If possible, give a test case that DOES NOT execute the fault. If not, briefly explain why not.
3. If possible, give a test case that DOES execute fault, but DOES NOT result in an error state. If not, briefly explain why not.
4. If possible, give test case that results in error state, but DOES NOT result in a failure (hint program counters). If not, briefly explain why not.
5. For the given test case, describe the first error state. Be sure to describe it completely.

findLast

1. This piece of code will not be allowed to reach the very first index in the array. Changing the comparison part of the for loop to i >= 0 will fix this.
2. A null array will not execute this specific fault. Any array and integer combination where the integer is not in the array. Example x = [7, 8,9] y = 2.
3. Any array and integer combination where the integer is not in the array. This example demonstrates the counter issue is not noticeable when y is not in the array x = [7, 8,9] y = 2.
4. This is the classic loop counter mistake that most beginning programmers make.

lastZero

1. 1

countPositive

1. 1

oddOrPos

1. 1