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COSC 603: Software Testing and Maintenance

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Project 3 Unit Testing with JUnit

Task 2 Getting Started – Fibonacci

The Fibonacci JUnit test case failed on the equality test case for the zero (0) test case in which a zero was expected but the value returned was one (1). The JUnit Test code is as follows: *assertEquals*("0", 0, fibonacci.fibonacci(0)); but the switch statement code for calculating and returning the nth Fibonacci number code for the zero case had a return of one (1) as oppose to returning zero in which that threw an error because it was expecting a return value of zero but the code had it returning one (1). In order to correct the error, the switch statement had to be corrected for the zero (0) case to return a value of one (1).

**public** **int** fibonacci(**int** n) {

**switch** (n) {

//case 0: return 1;

**case** 0: **return** 0;

**case** 1: **return** 1;

**default**: **return** (fibonacci(n - 1) + fibonacci(n - 2));

}

}

}