

In-Class Exercises Week 6

Software Testing

SWE 437/637

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(Dr. B for short)

In-class Exercise #1: Test Criteria

Consider the following abstract IDM:

Characteristic	Block 1	Block 2	Block 3	Block 4	Block 5
A	a1	a2	a3	a4	a5
B	b1	b2	b3		
C	c1	c2	c3	c4	c5
D	d1	d2			

1. How many tests would we need to satisfy ACoC?
2. How many tests are needed to satisfy ECC?
3. Write abstract tests to satisfy ECC.
4. How many tests are needed to satisfy BCC?
5. Assume the base values are a1, b1, c1, and d1. Write abstract tests to satisfy BC.
6. How many tests would we need to satisfy MBCC?

In-class Exercise #2: ISP Tests

Design ISP tests for the simple web application [calculate](#).

Design the input domain model, abstract tests, and test values. Use the each choice criterion (ECC).

In your group, go through the following steps:

1. List the testable function or functions.
2. List the inputs.
3. Define characteristics for the inputs.
4. Define blocks for the characteristics.
5. Use the ECC to combine the blocks to produce abstract tests.
6. Choose values for each abstract test.
7. Add expected results.
8. Run the tests by hand.