

Lab5 - Test Requirements

Requirements	Tests	
TestCell		
initializes correctly	testInitialization()	
can add one or two weapons	testAddWeapon()	
can remove one or two weapons	testRemoveWeapon()	
cannot place a weapon in a full cell	testFullCell()	
TestLifeForm (using Mock class)		
can store valid row and col number	testSetCoords()	
row and col initialized to -1's	testDefaultCoords()	
row and col remain -1 if either parameter from setLocation is negative	testInvalidCoords()	
TestEnvironment		
test initialize (as Singleton)	testInitialization()	
can add a weapon to a location	testAddWeapon()	
can remove a weapon from a location	testRemoveWeapon()	
get distance along same row	testGetDistanceSameRow()	
get distance along sam column	testGetDistanceSameCol()	
get distance not along same row or column	testGetDistanceDiff()	
Instructor use only		/13

1. *initialization* refers to using a constructor and check if the state (fields) of the objects have the expected values after construction.
2. You should use a reasonable *test oracle* to verify if your code does what the test wants it to do. For example, you may retrieve the LifeForm in a Cell and check if it's the one you added for meeting the requirement "can add a LifeForm".
3. Each requirement must be met by at least a unique test case (method).
4. You can have multiple test cases (methods) for a single requirement.