default value Test Driven Development - TDD Write the tests first!! pablic static place (int value) & return 0; 3 Write method header Write test cases Write code Fix code until all tests pass Checking for correctivess > CONFIDENCE could write What is a test? What are we checking in the code?

Check for crows JUnit is a simple framework to write repeatable tests Fill in the blanks for for assertEquals and assertNotEquals. assert Equals ( expected, actual); assertNotEquals( \_\_\_\_\_\_\_\_\_, Malk als (-?) ) 1 fail( "some error message" ); import static org.junit.Assert.assertEquals; import org.junit.Test; public class TestJUnit { @Test
public void testQuestion1() { Command line: javac -cp hamcrest-core-1.3.jar;junit-4.12.jar;. TestJava.java java -cp hamcrest-core-1.3.jar;junit-4.12.jar;. org.junit.runner.JUnitCore TestJava Or use Eclipse (IDE) What is @Test in the above code? What does it do? Lijunit annotation Pre/test Survey Given a string, return the sum of the numbers appearing in the string, ignoring all other characters. A number is a series of 1 or more digit chars in a row. (Note: Character.isDigit(char) tests if a char is one of the chars '0', '1', ... '9'. Integer.parseInt(string) converts a string to an int.) sumNumbers("abc123xyz")  $\rightarrow$  123 sumNumbers("aa11b33")  $\rightarrow$  44 sumNumbers("7 11")  $\rightarrow$  18 What test cases should we write to confirm that our implementation works?

INT SUMMUM SEVS (STVING 5) 9 1-4 UNN 015 1 input export ed 1110 0 edge 17 abe 123 xyz"
"aallbis" 123 0 44 cases 47 11 18 "ab\" ca" 0 "Oal" 11916203d "110 al" 11 Return an array that contains the exact same numbers as the given array, but rearranged so that all the even numbers come before all the odd numbers. Other than that, the numbers can be in any order. You may modify and return the given array, or make a new array. even0dd([1, 0, 1, 0, 0, 1, 1])  $\rightarrow$  [0, 0, 0, 1, 1, 1, 1] even0dd([3, 3, 2])  $\rightarrow$  [2, 3, 3] even0dd([2, 2, 2])  $\rightarrow$  [2, 2, 2] What test cases should we write to confirm that our implementation works? Exam Final Exam 100 > Part 1 100 u> 1 0 100 ub 2 100 3 75 90 Parts 90 w9