CSE12 - Lecture 2

Wednesday, April 3, 2024 10:00 AM

PAI released today

public static int abs (int valu) ?
yeturn 0;
s Lecture 2 Test Driven Development - TDD Write the tests first!! Write method header 1) Write test cases 2) default value 3) Write code Fix code until all tests pass 4) What is a test? What are we checking in the code? La ruy your code Ly check for errors + confidence code works la check for correctues JUnit is a simple framework to write repeatable tests. Write a test for the absolute value method in the Fill in the blanks for for assertEquals and Math library: int Math.abs(int value); assertNotEquals. assert Equals (expected, actual);

primitive ==

Objects requals() assertEquals(3, Math -abs (; 3) ع (معدولا) fail("some error message"); import static org.junit.Assert.assertEquals; import org.junit.Test; public class TestJUnit { 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 main nethod Or use Eclipse (IDE) 1966 What is @Test in the above code? What does it do? ; Unit aund to tion Lo tals junit - this is a test _ PID: _____ Code: 2959

sumNumbers

```
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") → 123
sumNumbers("aa11b33") → 44
sumNumbers("7 11") → 18
```

What test cases should we write to confirm that our implementation works?

iupal (argument)	catput (return value)		
4 a/c 123 × y 2"	123		
" aall b 37"	YY		
" > "	18		
٧ (/	07	1	
ua	0	ممام	(0-56)
MUC	0	edge	
10 b - 1"	1		
43.14"	17		

evenOdd

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?

do Friday