

Test Cases for Program 2

Instate

Case	Description	Input	Expected Output	Status
1	Test checkTestCases with two matching inputs to detect whether or not it can verify passing test case.	methodResult: "20" expectedOutput: "20"	pass	pass
2	Test checkTestCases with two non-matching input (expected is different from results); verify whether or not this method can detect failing test cases	methodResult: "hello" expectedOutput: "bye"	fail	pass
3	Basic check for constructor Instate(String fname, String lname, int credits, int funds). Will see if object is created by using toString() method to see if proper output is received.	Rizwan Chowdhury Credit : 13 Status : Instate Funds : 200	Rizwan Chowdhury Credit : 13 Status : Instate Funds : 200	pass
4	Test constructor Instate. Check if funds value lower than 0 is passed into constructor then object is created with funds value equal to 0, test will be done through toString()	Rizwan Chowdhury Credit : 13 Status : Instate Funds : -200	Rizwan Chowdhury Credit : 13 Status : Instate Funds : 0	pass
5	Test constructor Instate. Check if student is part-time (credit<12) then funds is set to 0 regardless of input.	Rizwan Chowdhury Credit: 8 Status: Instate Funds: 299	Rizwan Chowdhury Credit: 8 Status: Instate Funds: 0	pass

6	Test toString(). Check if toString() prints the object and its details: fname, lname, credits, status, and instate funds	Rizwan Chowdhury Credit: 13 Status: Instate Funds: 200	Rizwan Chowdhury Credit: 13 Status: Instate Funds: 200	pass
7	Test tuitionDue(). Check to see if proper tuition is returned for a part time Instate student.	Name: Tin Fung Credits: 7 Funds: 300	3877	pass
8	Test tuitionDue(). Check if method can properly calculate funds for a full time student, taking into account their funds.	Name: Tin Orterry Credits: 13 Funds: 200	6870	pass
9	Test tuitionDue(). Check if method returns right answer for student taking greater than 15 credits, should be calculated with 15 credits	Name: Riz Chow Credit: 17 Funds: 200	7736	pass

Outstate

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1	Test checkTestCases with two matching inputs to detect whether or not it can verify passing test case.	methodResult: "20" expectedOutput: "20"	pass	pass
2	Test checkTestCases with two non-matching input (expected is different from results); verify whether or not this method can detect failing test cases	methodResult: "hello" expectedOutput: "bye"	fail	pass
3	Test toString(). Create new Outstate object and see if toString() returns the proper string representation	new Outstate(fname:"Out", lname:"State",credit: 20, tristate:false)	Out State: Credit: 20 Status: Outstate TristateArea: Yes	pass
4	Test constructor Outstate. Checks to see if object is created, and will be tested using toString() method.	new Outstate(fname:"Out", lname:"State",credit: 20, tristate:false)	Out State: Credit: 20 Status: Outstate TristateArea: Yes	pass
5	Test constructor Outstate. Checks to see if object created as Student outside of tristate area is created properly, the tristate attribute is false.	new Outstate(fname: "Non", lname: "Tristate", credit: 14, tristate: false)	Non Tristate: Credit: 14 Status: Outstate Tristate Area: No	pass
6	Test tuitionDue(). Check if correct tuition is returned for a part time out of tristate student.	new Outstate(fname: "Jim", lname: "Bob", credit: 6, tristate: false)	\$5382	
7	Test tuitionDue(). Check	new Outstate(\$12025	

	if correct tuition is returned for a full time out of tristate student.	fname: "Bob", lname: "Jim", credit: 14, tristate: false)		
8	Test tuitionDue(). Check if correct tuition is returned for a over 15 credit out of tristate student.	new Outstate(fname: Jay, lname: Barry, credit: 19, tristate: false)	\$12781	
9	Test tuitionDue(). Check if correct tuition is returned for a student who is in the tristate area and who is part-time.	new Outstate(fname: Hello, lname: Bye, credit: 6, tristate: true)	\$5382	
10	Test tuitionDue(). Check if correct tuition is returned for a student who is in the tristate area and who is full-time.	new Outstate(fname: Bye, lname: Hello, credit: 14, tristate: true)	\$9225	
11	Test tuitionDue(). Check if correct tuition is returned for a student who is in the tristate area and who is taking more than 15 credits.	new Outstate(fname: Rizwan, lname: Chowdhury, credit: 18, tristate: true)	\$9781	
12	Test tuitionDue(). Check if correct tuition is returned for a student who is in the tristate area and who is taking more than 12 credits.	new Outstate(fname: Riz, lname: Chow, credit: 12, tristate: true)	\$8113	

International

Case	Description	Input	Expected Output	Status
1	Test checkTestCases with two matching inputs to detect whether or not it can verify passing test case.	methodResult: "20" expectedOutput: "20"	pass	pass
2	Test checkTestCases with two non-matching input (expected is different from results); verify whether or not this method can detect failing test cases	methodResult: "hello" expectedOutput: "bye"	fail	pass
3	Test toString(). Check if toString() returns proper string representation of International object created.	new International(fname: United, lname: Kingdom, credit: 13, exchange: false)	United Kingdom: Credit : 13 Status : International Exchange : Yes	pass
4	Test constructor International(). Check if an exchange student is created properly as an Exchange student. Test using toString().	new International(fname: Aus, lname: Tralia, credit: 14, exchange: true)	Aus Tralia: Credit: 14 Status: International Exchange: Yes	pass
5	Test constructor International. Check if object created with exchange property false is created as a non exchange student.	new International(fname: Colom, lname: Bia, credit: 13, exchange: false)	Colom Bia: Credit: 13 Status: International Exchange: No	pass
6	Test tuitionDue(). Check if proper tuition is calculated for an exchange student who is part time.	new International(fname: South , lname: Africa, credit: 10, exchange: true)	\$1791	pass
7	Test tuitionDue(). Check	new International(\$1791	pass

	if proper tuition is calculated for an exchange student who is taking 12 credits;12 is threshold between part-time and full-time, so need to check if value calculated properly.	fname: Chi, lname: Na, credit: 12, exchange: true)		
8	Test tuitionDue(). Check if proper tuition is calculated for an exchange student who is full-time.	new International(fname: Ja, lname: Pan, credit: 14, exchange: true)	\$1791	pass
9	Test tuitionDue(). Check if proper tuition is calculated for an exchange student who is taking over 15 credits. Should be calculated as 15 credits.	new International(fname: Fr, lname: Ance, credit: 20, exchange: true)	\$1791	pass
10	Test tuitionDue(). Check if proper tuition is calculated for a non-exchange student who is part time.	new International(fname: Ca, lname: Nada, credit: 10, exchange: false)	\$10646	pass
11	Test tuitionDue(). Check if proper tuition is calculated for a non-exchange student who is taking 12 credits; 12 is threshold between part-time and full-time, so need to check if value calculated properly.	new International(fname: Bangla, lname: Desh, credit: 12, exchange: false)	\$13131	pass
12	Test tuitionDue(). Check if proper tuition is calculated for a non-exchange student who is full time.	new International(fname: Mex, lname: Ico, credit: 14, exchange: false)	\$15021	pass
13	Test tuitionDue(). Check	new International(fname: Chi, lname: Na, credit: 12, exchange: true)	15966	pass

	if proper tuition is calculated for a non-exchange student who is taking over 15 credits. Should be calculated as 15 credits.	fname: Ger, lname: Many, credit: 19, exchange: false)		
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