Class	Method
Factory	testVM
CashRegister	calculateChange
	stockInternal
NewRegVendMachine	featuresVending
	buyItem
	featuresMaintenance
	restockItems
	restockMoney
	addNewItemStack
	removeItemStack
	setItemPrice

Test Case Description	Sample Input Data
Opening testing menu without existing VM	3
Opening testing menu and going back to factory menu	3 1
Opening testing menu and going to testing features	3 2
Opening testing menu and going to maintenance features	3 3
Calling calculate change with price>value	(10,5)
Calling calculate change not enough change	(10,20)
Calling calculate change with enough change	(10,20)
Calling stock internal with empty Array	()
Calling stockInternal with array of 0s	(0,0,0,0,0,0,0,0,0)
Calling stockInternal with array with elements	(1,1,1,1,1,1,1,1,1)
Cancelling while choosing an item	(From vending features menu) 3 0
Cancelling while inputting bills	(From vending features menu) 3 1 1
Insufficient change	(From vending features menu) 3 1 6
Exact change	(From vending features menu) 3 1 4
Requires change	(From vending features menu) 3 3 7
Invalid Input at asking which item to restock	asdf
Invalid Input at asking how much of an item to restock	zxcv
Input is greater than max stock	17
Invalid input at any point	asfd
Valid inputs for each bill	5 5 5 5 5 5 5 5 5
Negative Inputs	-5 -5 -5 -5 -5 -5 -5 -5 -5
Name is empty	\n
Name already exists	Egg
Price is negative	-5
Calories is negative	-6
Stock is negative	-4
Input is string	asdf
Input is out of bounds	22
Input is within bounds	5
Input for index is string	asdf
Input for index is out of bounds	22
Input for index is within bounds	5
Input for price is a string	asdf
Input for price is negative	-5

Expected Result
Test menu does not open
Test menu opens and then goes back to factory menu
Test menu opens and goes to testing features
Test menu opens and goes to maintenance features
returns null
returned array has -1 at the end
returned array does not have -1 at the end
IndexOutOfBounds error
No changes
All bills stock increased by 1
Returns to vending features menu
Returns to vending features menu
Cancels transaction and returns to vending features menu
Dispenses item w/o change
Dispenses change then item
Repeats prompt
Repeats prompt
Repeats prompt
InputMismatchException error
Inputs added to respective denominations
Error
Invalid input error and repeats prompt
Invalid input error and repeats prompt
Invalid input error and repeats prompt
Invalid input error and repeats prompt
Invalid input error and repeats prompt
Invalid input error and repeats prompt
Invalid input error and repeats prompt
Removes item at index 5 of itemTypes
Invalid input error and repeats prompt
Invalid input error and repeats prompt
Asks what price that item should be changed to
Invalid input error and repeats prompt
Invalid input error and repeats prompt

Actual Result	P/F
Test menu does not open	P
Test menu opens and then goes back to factory menu	P
Test menu opens and goes to testing features	P
Test menu opens and goes to maintenance features	P
returns null	P
returned array has -1 at the end	P
returned array does not have -1 at the end	P
IndexOutOfBounds error	P
No changes	P
All bills stock increased by 1	P
Returns to vending features menu	P
Returns to vending features menu	P
Cancels transaction and returns to vending features menu	P
Dispenses item w/o change	P
Dispenses change then item	P
Repeats prompt	P
Repeats prompt	P
Repeats prompt	P
InputMismatchException error	P
Inputs added to respective denominations	P
Respective denominations subtracted from	F
Invalid input error and repeats prompt	P
Invalid input error and repeats prompt	P
Invalid input error and repeats prompt	P
Invalid input error and repeats prompt	P
Invalid input error and repeats prompt	P
Invalid input error and repeats prompt	P
Invalid input error and repeats prompt	P
Removes item at index 5 of itemTypes	P
Invalid input error and repeats prompt	P
Invalid input error and repeats prompt	P
Asks what price that item should be changed to	P
Invalid input error and repeats prompt	P
Invalid input error and repeats prompt	P