

# Writing Test Cases II

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## 1 No Currency Test Cases

Test Name	Input Vector	Expected Output
test dispense red	<code>&lt;dispense_red()&gt;</code>	"You need at least 5 cents to dispense a red gumball"
test dispense yellow	<code>&lt;dispense_yellow()&gt;</code>	"You need at least 10 cents to dispense a red gumball"
test return my change	<code>&lt;return_my_change()&gt;</code>	"There is no change to return"

## 2 Return Valid Currency Test Cases

Test Name	Input Vector	Expected Output
test return nickel	<code>&lt;insert("nickel"), return_my_change()&gt;</code>	"Returning your change of 5 cents"
test return dime	<code>&lt;insert("dime"), return_my_change()&gt;</code>	"Returning your change of 10 cents"
test return quarter	<code>&lt;insert("quarter"), return_my_change()&gt;</code>	"Returning your change of 25 cents"

## 3 Exact Currency Test Cases

Test Name	Input Vector	Expected Output
test insert nickel dispense red	<code>&lt;insert("nickel"), dispense_red()&gt;</code>	"Enjoy your red gumball"
test insert dime dispense yellow	<code>&lt;insert("nickel"), dispense_yellow()&gt;</code>	"Enjoy your yellow gumball"
test insert nickels dispense yellow	<code>&lt;insert("nickel"), insert("nickel"), dispense_yellow()&gt;</code>	"Enjoy your yellow gumball"

## 4 Invalid Currency Test Cases

Test Name	Input Vector	Expected Output
test return dollar	<code>&lt;insert("dollar"), return_my_change(&gt;</code>	"Returning your invalid currency of dollar"
test return dollars	<code>&lt;insert("dollar"), insert("dollar"), return_my_change(&gt;</code>	"Returning your invalid currency of dollar, dollar"
test insert dollar dispense red	<code>&lt;insert("dollar"), dispense_red(&gt;</code>	"Returning your invalid currency of dollar"
test insert dollar dispense yellow	<code>&lt;insert("dollar"), dispense_yellow(&gt;</code>	"Returning your invalid currency of dollar"

## 5 Multiple Gumballs Exact Currency Test Cases

Test Name	Input Vector	Expected Output
test insert nickels dispense reds	<code>&lt;insert("nickel"), insert("nickel"), dispense_red(), dispense_red(), return_my_change(&gt;</code>	"There is no change to return"
test insert dime dispense reds	<code>&lt;insert("dime"), dispense_red(), dispense_red(), return_my_change(&gt;</code>	"There is no change to return"
test insert nickels dispense yellows	<code>&lt;insert("nickel"), insert("nickel"), insert("nickel"), insert("nickel"), dispense_yellow(), dispense_yellow(), return_my_change(&gt;</code>	"There is no change to return"
test insert dimes dispense yellows	<code>&lt;insert("dime"), insert("dime"), dispense_yellow(), dispense_yellow(), return_my_change(&gt;</code>	"There is no change to return"