identification division.

program-id. GildedRose-Tests.

environment division.

configuration section.

data division.

working-storage section.

01 Test-Entry-Point pic X(255) value 'update-quality'.

01 Prior-Quality pic s9(2).

01 Prior-Sell-In pic s9(2).

01 item.

05 sell-in pic s9(2).

05 quality pic s9(2).

05 item-name pic x(50).

\*>\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*>Copybook with Fields required/used by Test Suite Template

\*>Fields will be set by GUnit and used however the programmer

\*>deems necessary for thier test processing

\*>\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*>

copy 'lib/TSFields.cpy'.

\*>\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*>Copybook with Fields required/used by GUnit

\*>Fields will be set by the caller and returned by GUnit

\*>\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

copy 'lib/GUnitFld.cpy'.

procedure division.

Perform Run-Tests thru Run-Tests-Exit. \*> Perform all tests in test suite

Perform TS-Show-Results. \*> Display results

goback.

Run-Tests.

\*>\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*> Tests-Start.

\*>\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Test-Normal-Item-1.

move "Normal item's sell-in reduces by one each update"

to TS-Test-Description.

\*> Arrange

perform GU-Initialize-Default-Values.

move 'Elixir of the Mongoose' to item-name.

move 4 to sell-in.

move 6 to quality.

move sell-in to Prior-Sell-In.

\*> Act

call Test-Entry-Point using item.

\*> Assert

move sell-in to GU-Actual-Value-Numeric.

compute GU-Expected-Value-Numeric = 3.

perform GU-Assert-Numeric-Equal.

Test-Normal-Item-2.

move "Normal item's quality reduces by one each update"

to TS-Test-Description.

\*> Arrange

perform GU-Initialize-Default-Values.

move 'Elixir of the Mongoose' to item-name.

move 4 to sell-in.

move 6 to quality.

move sell-in to Prior-Sell-In.

\*> Act

call Test-Entry-Point using item.

\*> Assert

move quality to GU-Actual-Value-Numeric.

compute GU-Expected-Value-Numeric = 5.

perform GU-Assert-Numeric-Equal.

Test-Normal-Item-3.

move "Normal item's quality reduces by two each update with sell in zero"

to TS-Test-Description.

\*> Arrange

perform GU-Initialize-Default-Values.

move 'Elixir of the Mongoose' to item-name.

move 0 to sell-in.

move 6 to quality.

move sell-in to Prior-Sell-In.

\*> Act

call Test-Entry-Point using item.

\*> Assert

move quality to GU-Actual-Value-Numeric.

compute GU-Expected-Value-Numeric = 4.

perform GU-Assert-Numeric-Equal.

Test-Normal-Item-4.

move "Normal item's quality reduces by one each update with sell in one"

to TS-Test-Description.

\*> Arrange

perform GU-Initialize-Default-Values.

move 'Elixir of the Mongoose' to item-name.

move 1 to sell-in.

move 6 to quality.

move sell-in to Prior-Sell-In.

\*> Act

call Test-Entry-Point using item.

\*> Assert

move quality to GU-Actual-Value-Numeric.

compute GU-Expected-Value-Numeric = 5.

perform GU-Assert-Numeric-Equal.

Test-Normal-Item-5.

move "Normal item's quality never be negative each update with sell in one"

to TS-Test-Description.

\*> Arrange

perform GU-Initialize-Default-Values.

move 'Elixir of the Mongoose' to item-name.

move 1 to sell-in.

move 0 to quality.

move sell-in to Prior-Sell-In.

\*> Act

call Test-Entry-Point using item.

\*> Assert

move quality to GU-Actual-Value-Numeric.

compute GU-Expected-Value-Numeric = 0.

perform GU-Assert-Numeric-Equal.

Test-Normal-Item-6.

move "Normal item's quality reduces by one each update with sell in zero"

to TS-Test-Description.

\*> Arrange

perform GU-Initialize-Default-Values.

move 'Elixir of the Mongoose' to item-name.

move 0 to sell-in.

move 0 to quality.

move sell-in to Prior-Sell-In.

\*> Act

call Test-Entry-Point using item.

\*> Assert

move quality to GU-Actual-Value-Numeric.

compute GU-Expected-Value-Numeric = 0.

perform GU-Assert-Numeric-Equal.

Test-Conjured-Item-1.

move "Conjured item's quality decrease by 2 each update"

to TS-Test-Description.

\*> Arrange

perform GU-Initialize-Default-Values.

move 'Conjured' to item-name.

move 10 to sell-in.

move 10 to quality.

move sell-in to Prior-Sell-In.

\*> Act

call Test-Entry-Point using item.

\*> Assert

move quality to GU-Actual-Value-Numeric.

compute GU-Expected-Value-Numeric = 8.

perform GU-Assert-Numeric-Equal.

Test-Conjured-Item-2.

move "Conjured item's quality decrease by 4 each update when sellIn is zero"

to TS-Test-Description.

\*> Arrange

perform GU-Initialize-Default-Values.

move 'Conjured' to item-name.

move 0 to sell-in.

move 10 to quality.

move sell-in to Prior-Sell-In.

\*> Act

call Test-Entry-Point using item.

\*> Assert

move quality to GU-Actual-Value-Numeric.

compute GU-Expected-Value-Numeric = 6.

perform GU-Assert-Numeric-Equal.

Test-Conjured-Item-3.

move "Conjured item's quality decrease by 2 each update when sellIn is 1"

to TS-Test-Description.

\*> Arrange

perform GU-Initialize-Default-Values.

move 'Conjured' to item-name.

move 1 to sell-in.

move 10 to quality.

move sell-in to Prior-Sell-In.

\*> Act

call Test-Entry-Point using item.

\*> Assert

move quality to GU-Actual-Value-Numeric.

compute GU-Expected-Value-Numeric = 8.

perform GU-Assert-Numeric-Equal.

\*>\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*> Tests-End.

\*>\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Run-Tests-Exit.

exit.

\*>\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*> COPY Test Suite Features Desired/Used before end of program

\*>\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

copy 'lib/TSGUAEQN.cpy'. \*> Assert Equals Numeric

copy 'lib/TSGUANEN.cpy'. \*> Assert NotEquals Numeric

copy 'lib/TSGUAEQS.cpy'. \*> Assert Equals String

copy 'lib/TSGUANES.cpy'. \*> Assert Not Equals String

copy 'lib/TSShow.cpy'. \*> Test Suit Display Results

copy 'lib/GUInit.cpy'. \*> GUnit Initialize to Defaults

end program GildedRose-Tests.

\*>\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*> COPY program code to be tested AFTER end of Test Suite Program

\*>\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*>

copy 'lib/GUnitV3.cbl'. \*> GUnit Code