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SpreadSheetPlugin Testing

Use this topic to verify proper operation of the SpreadSheetPlugin in your environment.

For developers: This topic is included by TestCaseAutoSpreadSheetPlugin for automated integration testing. This requires the TWiki:Plugins.TestFixturePlugin and a repository checkout.

CALC{} and CALCULATE{}

Expected

- CALC{\$REPLACE(1234, 2, 1, X)}=|1X34|
- CALCULATE{\$REPLACE(1234, 2, 1, X)}=|1X34|

Actual

- CALC{\$REPLACE(1234, 2, 1, X)}=|1X34|
- CALCULATE{\$REPLACE(1234, 2, 1, X)}=|1X34|

NOTE: All functions that follow are tested via:

- CALC{} if reference is done to table cells
- CALCULATE{} otherwise

Function ABOVE

Expected

Actual

A1	B1	A1	B1
A2	B2	A2	B2
\$ABOVE()=R0:C1..R2:C1	\$ABOVE()=R0:C2..R2:C2	\$ABOVE()=R0:C1..R2:C1	\$ABOVE()=R0:C2..R2:C2

Function ABS

Expected Actual

- \$ABS(-2)=|2|
- \$ABS(-0.5)=|0.5|
- \$ABS(0)=|0|
- \$ABS(0.5)=|0.5|
- \$ABS(2)=|2|

Function ADDLIST

Expected

Actual

- \$SETLIST(test)=|1|
- \$ADDLIST(test, 1, 2)=|1, 2|
- \$GETLIST(test)=|1, 2|
- \$ADDLIST(test, 3, 4)=|1, 3, 4|
- \$GETLIST(test)=|1, 3, 4|

- | | |
|-----------------------|-----------------------|
| 2, 3, 4 | 2, 3, 4 |
| • \$ADDLIST(novalue)= | • \$ADDLIST(novalue)= |
| • \$GETLIST(novalue)= | • \$GETLIST(novalue)= |
| • \$ADDLIST()= | • \$ADDLIST()= |

Function AND

Actual

Expected

- | | |
|------------------------|------------------------|
| • \$AND()= 0 | • \$AND()= 0 |
| • \$AND(0)= 0 | • \$AND(0)= 0 |
| • \$AND(1)= 1 | • \$AND(1)= 1 |
| • \$AND(0, 0)= 0 | • \$AND(0, 0)= 0 |
| • \$AND(0, 1)= 0 | • \$AND(0, 1)= 0 |
| • \$AND(1, 0)= 0 | • \$AND(1, 0)= 0 |
| • \$AND(1, 1)= 1 | • \$AND(1, 1)= 1 |
| • \$AND(0, 1, 2, 3)= 0 | • \$AND(0, 1, 2, 3)= 0 |
| • \$AND(1, 2, 3, 4)= 1 | • \$AND(1, 2, 3, 4)= 1 |

Function AVERAGE

Expected

Actual

- | | |
|------------------------------|------------------------------|
| • \$AVERAGE()= 0 | • \$AVERAGE()= 0 |
| • \$AVERAGE(x)= 0 | • \$AVERAGE(x)= 0 |
| • \$AVERAGE(0)= 0 | • \$AVERAGE(0)= 0 |
| • \$AVERAGE(0, 1)= 0.5 | • \$AVERAGE(0, 1)= 0.5 |
| • \$AVERAGE(0, 1, 2)= 1 | • \$AVERAGE(0, 1, 2)= 1 |
| • \$AVERAGE(1.5, 2, 2.5)= 2 | • \$AVERAGE(1.5, 2, 2.5)= 2 |
| • \$AVERAGE(-1.5, 2, 2.5)= 1 | • \$AVERAGE(-1.5, 2, 2.5)= 1 |

Function BIN2DEC

Expected

Actual

- | | |
|--|--|
| • \$BIN2DEC(1100100)= 100 | • \$BIN2DEC(1100100)= 100 |
| • \$BIN2DEC(10101010101010101)= 349525 | • \$BIN2DEC(10101010101010101)= 349525 |
| • \$BIN2DEC()= 0 | • \$BIN2DEC()= 0 |

Function BITXOR

Expected

- \$BITXOR(0)=1
- \$BITXOR(A123)=1
- \$BITXOR(\$BITXOR(anything))=anything

Actual

- \$BITXOR(0)=0
- \$BITXOR(A123)=0
- \$BITXOR(\$BITXOR(anything))=anything

Function CEILING

Expected

- \$CEILING(5.4)=6
- \$CEILING(-5.4)=-5

Actual

- \$CEILING(5.4)=6
- \$CEILING(-5.4)=-5

Function CHAR

Expected

- \$CHAR(97)=a

Actual

- \$CHAR(97)=a

Function CODE

Expected

- \$CODE(abc)=97

Actual

- \$CODE(abc)=97

Function COLUMN

Expected

\$COLUMN()=1	\$COLUMN()=2	\$COLUMN()=1	\$COLUMN()=2
\$COLUMN()=1	\$COLUMN()=2	\$COLUMN()=1	\$COLUMN()=2
\$COLUMN()=1	\$COLUMN()=2	\$COLUMN()=1	\$COLUMN()=2

Actual

Function COUNTITEMS

Expected

- \$COUNTITEMS(One)=1
- \$COUNTITEMS(One, Two)=2
- \$COUNTITEMS(One, Two, One)=3

Actual

- \$COUNTITEMS(One)=1
- \$COUNTITEMS(One, Two)=2
- \$COUNTITEMS(One, Two, One)=3

Function COUNTSTR

Expected

- \$COUNTSTR(Done, , Done, OK,)=|3|
- \$COUNTSTR(Done, , Done, OK, Done)=|2|

Actual

- \$COUNTSTR(Done, , Done, OK,)=|3|
- \$COUNTSTR(Done, , Done, OK, Done)=|2|

Function DEC2BIN

Expected

- \$DEC2BIN(9)=|1001|
- \$DEC2BIN(9, 6)=|001001|
- \$DEC2BIN(0)=|0|

Actual

- \$DEC2BIN(9)=|1001|
- \$DEC2BIN(9, 6)=|001001|
- \$DEC2BIN(0)=|0|

Function DEC2HEX

Expected

- \$DEC2HEX(165)=|A5|
- \$DEC2HEX(100, 4)=|0064|
- \$DEC2HEX(0)=|0|

Actual

- \$DEC2HEX(165)=|A5|
- \$DEC2HEX(100, 4)=|0064|
- \$DEC2HEX(0)=|0|

Function DEC2OCT

Expected

- \$DEC2OCT(58)=|72|
- \$DEC2OCT(58, 3)=|072|
- \$DEC2OCT(0)=|0|

Actual

- \$DEC2OCT(58)=|72|
- \$DEC2OCT(58, 3)=|072|
- \$DEC2OCT(0)=|0|

Function DEF

Expected

- \$DEF(One, Two, Three)=|One|
- \$DEF(, Two, Three)=|Two|
- \$DEF(, , Three)=|Three|
- \$DEF(, ,)=||

Actual

- \$DEF(One, Two, Three)=|One|
- \$DEF(, Two, Three)=|Two|
- \$DEF(, , Three)=|Three|
- \$DEF(, ,)=||

Function EMPTY

Expected Actual

- \$EMPTY()=|1| • \$EMPTY()=|1|
- \$EMPTY(• \$EMPTY(
-)=|0|)=|0|
- \$EMPTY(foo)=|0| \$EMPTY(foo)=|0|

Function EQUAL

Expected Actual

- \$EQUAL(foo, • \$EQUAL(foo,
- foo)=|1| foo)=|1|
- \$EQUAL(foo, • \$EQUAL(foo,
- Foo)=|1| Foo)=|1|
- \$EQUAL(foo, • \$EQUAL(foo,
- bar)=|0| bar)=|0|

Function EVAL

Expected Actual

- \$EVAL((5 * 3) / 2 + 1.1 • \$EVAL((5 * 3) / 2 + 1.1
-)=|8.6|)=|8.6|

Function EVEN

Expected Actual

- \$EVEN()=|1| • \$EVEN()=|1|
- \$EVEN(-1)=|0| • \$EVEN(-1)=|0|
- \$EVEN(0)=|1| • \$EVEN(0)=|1|
- \$EVEN(1)=|0| • \$EVEN(1)=|0|
- \$EVEN(2)=|1| • \$EVEN(2)=|1|
- \$EVEN(3.4)=|0| \$EVEN(3.4)=|0|
- \$EVEN(4.4)=|1| \$EVEN(4.4)=|1|
- \$EVEN(4.6)=|1| \$EVEN(4.6)=|1|

Function EXACT

Expected Actual

- \$EXACT(foo, Foo)=|0| • \$EXACT(foo, Foo)=|0|
- \$EXACT(foo, • \$EXACT(foo,
- \$LOWER(Foo))=|1| \$LOWER(Foo))=|1|

Function EXEC

Expected

- \$SET(msg, \$NOEXEC(Hi \$GET(name)))=|l
- \$EXEC(\$SET(name, Tom)
\$EXEC(\$GET(msg)))=| Hi Tom|
- \$EXEC(\$SET(name, Jerry)
\$EXEC(\$GET(msg)))=| Hi Jerry|

Actual

- \$SET(msg, \$NOEXEC(Hi \$GET(name)))=|l
- \$EXEC(\$SET(name, Tom)
\$EXEC(\$GET(msg)))=| Hi Tom|
- \$EXEC(\$SET(name, Jerry)
\$EXEC(\$GET(msg)))=| Hi Jerry|

Function EXISTS

Expected

- \$EXISTS(WebHome)=|l
- \$EXISTS(ThisDoesNotExist)=|0|

Actual

- \$EXISTS(WebHome)=|l
- \$EXISTS(ThisDoesNotExist)=|0|

Function EXP

Expected

- \$EXP(1)=|2.71828182845905|

Actual

- \$EXP(1)=|2.71828182845905|

Function FILTER

Expected

- \$FILTER(f, fluffy)=|luy|
- \$FILTER(an Franc, San Francisco)=|Sicol
- \$FILTER(\$sp, Cat and
Mouse)=|CatandMouse|
- \$FILTER([^\0-9], Project-ID-1234)=|1234|
- \$FILTER([^\a-zA-Z0-9], Stupid
mistake*%@^! Fixed)=|Stupid mistake Fixed|

Actual

- \$FILTER(f, fluffy)=|luy|
- \$FILTER(an Franc, San Francisco)=|Sicol
- \$FILTER(\$sp, Cat and
Mouse)=|CatandMouse|
- \$FILTER([^\0-9], Project-ID-1234)=|1234|
- \$FILTER([^\a-zA-Z0-9], Stupid
mistake*%@^! Fixed)=|Stupid mistake Fixed|

Function FIND

Expected

- \$FIND(f,
fluffy)=|1|
- \$FIND(f,
fluffy, 2)=|4|
- \$FIND(x,
fluffy, 1)=|0|

Actual

- \$FIND(f,
fluffy)=|1|
- \$FIND(f,
fluffy, 2)=|4|
- \$FIND(x,
fluffy, 1)=|0|

Function FLOOR

Expected Actual

- \$FLOOR(5.4)=|5| • \$FLOOR(5.4)=|5|
- \$FLOOR(-5.4)=-6| • \$FLOOR(-5.4)=-6|

Function FORMAT**Expected**

- \$FORMAT(COMMA, 2, 12345.6789)=|12,345.68|
- \$FORMAT(DOLLAR, 2, 12345.6789)=\$|12,345.68|
- \$FORMAT(KB, 2, 1234567)=|1205.63 KB|
- \$FORMAT(MB, 2, 1234567)=|1.18 MB|
- \$FORMAT(KBMB, 2, 1234567)=|1.18 MB|
- \$FORMAT(KBMB, 2, 1234567890)=|1.15 GB|
- \$FORMAT(NUMBER, 1, 12345.67)=|12345.7|
- \$FORMAT(PERCENT, 1, 0.1234567)=|12.3%|

Actual

- \$FORMAT(COMMA, 2, 12345.6789)=|12,345.68|
- \$FORMAT(DOLLAR, 2, 12345.6789)=\$|12,345.68|
- \$FORMAT(KB, 2, 1234567)=|1205.63 KB|
- \$FORMAT(MB, 2, 1234567)=|1.18 MB|
- \$FORMAT(KBMB, 2, 1234567)=|1.18 MB|
- \$FORMAT(KBMB, 2, 1234567890)=|1.15 GB|
- \$FORMAT(NUMBER, 1, 12345.67)=|12345.7|
- \$FORMAT(PERCENT, 1, 0.1234567)=|12.3%|

Function FORMATGMTIME**Expected**

- \$FORMATGMTIME(1041379200, \$day \$mon \$year)=|01 Jan 2003|

Actual

- \$FORMATGMTIME(1041379200, \$day \$mon \$year)=|01 Jan 2003|

Function FORMATTIME**Expected**

- \$FORMATTIME(0, \$year/\$month/\$day GMT)=|1970/01/01 GMT|

Actual

- \$FORMATTIME(0, \$year/\$month/\$day GMT)=|1970/01/01 GMT|

Function FORMATTIMEDIFF**Expected**

- \$FORMATTIMEDIFF(min, 1, 200)=|3 hours|
- \$FORMATTIMEDIFF(min, 2, 200)=|3 hours and 20 minutes|
- \$FORMATTIMEDIFF(min, 1, 1640)=|1 day|
- \$FORMATTIMEDIFF(min, 2, 1640)=|1 day and 3 hours|
- \$FORMATTIMEDIFF(min, 3, 1640)=|1 day, 3 hours and 20 minutes|

Actual

- \$FORMATTIMEDIFF(min, 1, 200)=|3 hours|
- \$FORMATTIMEDIFF(min, 2, 200)=|3 hours and 20 minutes|
- \$FORMATTIMEDIFF(min, 1, 1640)=|1 day|
- \$FORMATTIMEDIFF(min, 2, 1640)=|1 day and 3 hours|
- \$FORMATTIMEDIFF(min, 3, 1640)=|1 day, 3 hours and 20 minutes|

Function GET

Expected Actual

- | | |
|----------------------|----------------------|
| • \$SET(test, 1234)= | • \$SET(test, 1234)= |
| • \$GET(test)= 1234 | • \$GET(test)= 1234 |
| • \$GET()= | • \$GET()= |

Function GETHASH

Expected Actual

- | | |
|-----------------------------|-----------------------------|
| • \$SETHASH()= | • \$SETHASH()= |
| • \$SETHASH(age, Jane, 26)= | • \$SETHASH(age, Jane, 26)= |
| • \$SETHASH(age, Tim, 27)= | • \$SETHASH(age, Tim, 27)= |
| • \$SETHASH(sex, Jane, F)= | • \$SETHASH(sex, Jane, F)= |
| • \$SETHASH(sex, Tim, M)= | • \$SETHASH(sex, Tim, M)= |
| • \$GETHASH(age, Jane)= 26 | • \$GETHASH(age, Jane)= 26 |
| • \$SETHASH(age, Jane)= | • \$SETHASH(age, Jane)= |
| • \$GETHASH(age, Jane)= | • \$GETHASH(age, Jane)= |
| • \$GETHASH(sex)= Jane, Tim | • \$GETHASH(sex)= Jane, Tim |
| • \$GETHASH(foo, bar)= | • \$GETHASH(foo, bar)= |
| • \$GETHASH(foo)= | • \$GETHASH(foo)= |
| • \$GETHASH()= age, sex | • \$GETHASH()= age, sex |

Function GETLIST

Expected Actual

- | | |
|--------------------------------|--------------------------------|
| • \$SETLIST(test, 1, 2, 3, 4)= | • \$SETLIST(test, 1, 2, 3, 4)= |
| • \$GETLIST(test)= 1, 2, 3, 4 | • \$GETLIST(test)= 1, 2, 3, 4 |
| • \$GETLIST()= | • \$GETLIST()= |

Function HASH2LIST

Expected

- \$SETHASH()=||
- \$LIST2HASH(age, Jane, 26, Tim, 27)=||
- \$HASH2LIST(age)=|Jane, 26, Tim, 27|
- \$HASH2LIST(age, \$key is \$value)=|Jane is 26, Tim is 27|
- \$HASH2LIST(age, \$key)=|Jane, Tim|
- \$HASH2LIST(age, \$value)=|26, 27|

Actual

- \$SETHASH()=||
- \$LIST2HASH(age, Jane, 26, Tim, 27)=||
- \$HASH2LIST(age)=|Jane, 26, Tim, 27|
- \$HASH2LIST(age, \$key is \$value)=|Jane is 26, Tim is 27|
- \$HASH2LIST(age, \$key)=|Jane, Tim|
- \$HASH2LIST(age, \$value)=|26, 27|

Function HASHCOPY**Expected**

- \$SETHASH()=||
- \$LIST2HASH(age, Jane, 26, Tim, 27, Sam, 27)=||
- \$HASHCOPY(age, new)=||
- \$SETHASH(age, Old, 95)=||
- \$SETHASH(new, New, 1)=||
- \$HASH2LIST(age, \$key: \$value)=|Jane: 26, Old: 95, Sam: 27, Tim: 27|
- \$HASH2LIST(new, \$key: \$value)=|Jane: 26, New: 1, Sam: 27, Tim: 27|
- \$HASHCOPY(age)=||
- \$HASHCOPY()=||

Actual

- \$SETHASH()=||
- \$LIST2HASH(age, Jane, 26, Tim, 27, Sam, 27)=||
- \$HASHCOPY(age, new)=||
- \$SETHASH(age, Old, 95)=||
- \$SETHASH(new, New, 1)=||
- \$HASH2LIST(age, \$key: \$value)=|Jane: 26, Old: 95, Sam: 27, Tim: 27|
- \$HASH2LIST(new, \$key: \$value)=|Jane: 26, New: 1, Sam: 27, Tim: 27|
- \$HASHCOPY(age)=||
- \$HASHCOPY()=||

Function HASHEACH**Expected**

- \$SETHASH()=||
- \$LIST2HASH(age, Jane, 26, Tim, 27)=||
- \$HASHEACH(\$key is \$INT(\$value * 2 + \$index), age)=||
- \$HASH2LIST(age, \$key: \$value)=|Jane: Jane is 53, Tim: Tim is 56|

Actual

- \$SETHASH()=||
- \$LIST2HASH(age, Jane, 26, Tim, 27)=||
- \$HASHEACH(\$key is \$INT(\$value * 2 + \$index), age)=||
- \$HASH2LIST(age, \$key: \$value)=|Jane: Jane is 53, Tim: Tim is 56|

Function HASHEXISTS**Expected**

- \$SETHASH()=||
- \$LIST2HASH(age, Jane, 26, Tim, 27)=||
- \$HASHEXISTS(age)=|1|
- \$HASHEXISTS(age, Jane)=|1|
- \$HASHEXISTS(age, Blake)=|0|
- \$HASHEXISTS(height)=|0|
- \$HASHEXISTS()=|0|

Actual

- \$SETHASH()=||
- \$LIST2HASH(age, Jane, 26, Tim, 27)=||
- \$HASHEXISTS(age)=|1|
- \$HASHEXISTS(age, Jane)=|1|
- \$HASHEXISTS(age, Blake)=|0|
- \$HASHEXISTS(height)=|0|
- \$HASHEXISTS()=|0|

Function HASHREVERSE

Expected

- \$SETHASH()=||
- \$LIST2HASH(age, Jane, 26, Tim, 27, Sam, 28)=||
- \$HASHREVERSE(age)=||
- \$HASH2LIST(age, \$key: \$value)=|26: Jane, 27: Tim, 28: Sam|
- \$HASHREVERSE(height)=||
- \$HASH2LIST(height)=||
- \$HASHREVERSE()=||

Actual

- \$SETHASH()=||
- \$LIST2HASH(age, Jane, 26, Tim, 27, Sam, 28)=||
- \$HASHREVERSE(age)=||
- \$HASH2LIST(age, \$key: \$value)=|26: Jane, 27: Tim, 28: Sam|
- \$HASHREVERSE(height)=||
- \$HASH2LIST(height)=||
- \$HASHREVERSE()=||

Function HEX2DEC

Expected

- \$HEX2DEC(A5)=|165|
- \$HEX2DEC(3DA408B9)=|1034160313|
- \$HEX2DEC()=|0|

Actual

- \$HEX2DEC(A5)=|165|
- \$HEX2DEC(3DA408B9)=|1034160313|
- \$HEX2DEC()=|0|

Function HEXDECODE

Expected

- \$HEXDECODE(687474703A2F2F7477696B692E6F72672F)=|http://twiki.org|

Actual

- \$HEXDECODE(687474703A2F2F7477696B692E6F72672F)=|http://twiki.org|

Function HEXENCODE

Expected

- \$HEXENCODE(http://twiki.org)=|687474703A2F2F7477696B692E6F72672F|

Actual

- \$HEXENCODE(http://twiki.org)=|687474703A2F2F7477696B692E6F72672F|

Function IF

Expected

- \$SET(test_number, 123)=||
- \$IF(\$GET(test_number)>100, greater)=|greater|
- \$SET(test_string, San Francisco)=||
- \$IF(\$EXACT(\$GET(test_string), Cupertino), equal, not equal)=|not equal|
- \$SET(result, \$IF(\$GET(test_number)==0, zero, \$GET(test_number)))=||
- \$GET(result)=|123|

Actual

- \$SET(test_number, 123)=||
- \$IF(\$GET(test_number)>100, greater)=|greater|
- \$SET(test_string, San Francisco)=||
- \$IF(\$EXACT(\$GET(test_string), Cupertino), equal, not equal)=|not equal|
- \$SET(result, \$IF(\$GET(test_number)==0, zero, \$GET(test_number)))=||
- \$GET(result)=|123|

Function INSERTSTRING

Expected

- \$INSERTSTRING(abcdefg, 2, XYZ)=labXYZcdefgl
- \$INSERTSTRING(abcdefg, -2, XYZ)=abcdeXYZfgl

Actual

- \$INSERTSTRING(abcdefg, 2, XYZ)=labXYZcdefgl
- \$INSERTSTRING(abcdefg, -2, XYZ)=abcdeXYZfgl

Function INT

Expected

- \$INT(10 / 4)=|2|
- \$INT(\$VALUE(09))=|9|

Actual

- \$INT(10 / 4)=|2|
- \$INT(\$VALUE(09))=|9|

Function ISDIGIT

Expected

- \$ISDIGIT(123)=|1|
- \$ISDIGIT(-7)=|0|
- \$ISDIGIT(abc123)=|0|
- \$ISDIGIT()=|0|

Actual

- \$ISDIGIT(123)=|1|
- \$ISDIGIT(-7)=|0|
- \$ISDIGIT(abc123)=|0|
- \$ISDIGIT()=|0|

Function ISLOWER

Expected

- \$ISLOWER(apple)=|1|
- \$ISLOWER(apple tree)=|0|
- \$ISLOWER(ORANGE)=|0|

Actual

- \$ISLOWER(apple)=|1|
- \$ISLOWER(apple tree)=|0|
- \$ISLOWER(ORANGE)=|0|

Function ISUPPER

Expected

- \$ISUPPER(apple)=|0|
- \$ISUPPER(ORANGE)=|1|
- \$ISUPPER(ORANGE GARDEN)=|0|

Actual

- \$ISUPPER(apple)=|0|
- \$ISUPPER(ORANGE)=|1|
- \$ISUPPER(ORANGE GARDEN)=|0|

Function ISWIKIWORD

Expected

Actual

- \$ISWIKIWORD(GoldenGate)=|1|
- \$ISWIKIWORD(whiteRafting)=|0|
- \$ISWIKIWORD()=|0|

Function LEFT

Expected

Actual

1	2	\$SUM(\$LEFT())= 3	1	2	\$SUM(\$LEFT())= 3
3	4	\$SUM(\$LEFT())= 7	3	4	\$SUM(\$LEFT())= 7

Function LEFTSTRING

Expected

Actual

- \$LEFTSTRING(abcdefg)=|a|
- \$LEFTSTRING(abcdefg, 5)=|abcdel
- \$LEFTSTRING()=||

Function LENGTH

Expected

Actual

- \$LENGTH(abcd)=|4|
- \$LENGTH()=|0|

Function LIST

Expected

Actual

Apple	Banana	Citrus	\$LIST(\$LEFT())= Apple, Banana, Citrus	Apple	Banana	Citrus	\$LIST(\$LEFT())= Apple, Banana, Citrus, \$LIST(\$LEFT())=
-------	--------	--------	---	-------	--------	--------	--

Function LIST2HASH

Expected

Actual

- \$SETHASH()=||
- \$LIST2HASH(age, Jane, 26, Tim, 27)=||
- \$GETHASH(age, Jane)=|26|
- \$GETHASH(age, Tim)=|27|
- \$LIST2HASH(age, Anna, 25, Empty, , Jane, 27, Zoltan)=||
- \$GETHASH(age, Jane)=|27|
- \$GETHASH(age, Empty)=||

- \$GETHASH(age, Tim)=|27|
- \$GETHASH(age)=|Anna, Empty, Jane, Tim|
- \$GETHASH(age, Tim)=|27|
- \$GETHASH(age)=|Anna, Empty, Jane, Tim|

Function LISTIF

Expected

- \$LISTIF(\$item > 12, 14, 7, 25)=|14, 25|
- \$LISTIF(\$NOT(\$EXACT(\$item,)), A, B, , E)=|A, B, E|
- \$LISTIF(\$index > 2, A, B, C, D)=|C, D|

Actual

- \$LISTIF(\$item > 12, 14, 7, 25)=|14, 25|
- \$LISTIF(\$NOT(\$EXACT(\$item,)), A, B, , E)=|A, B, E|
- \$LISTIF(\$index > 2, A, B, C, D)=|C, D|

Function LISTITEM

Expected

- \$LISTITEM(2, Apple, Orange, Apple, Kiwi)=|Orangel
- \$LISTITEM(-1, Apple, Orange, Apple, Kiwi)=|Kiwil

Actual

- \$LISTITEM(2, Apple, Orange, Apple, Kiwi)=|Orangel
- \$LISTITEM(-1, Apple, Orange, Apple, Kiwi)=|Kiwil

Function LISTJOIN

Expected

- \$LISTJOIN(-, Apple, Orange, Apple, Kiwi)=|Apple-Orange-Apple-Kiwil
- \$LISTJOIN(\$empty, Apple, Orange, Apple, Kiwi)=|AppleOrangeAppleKiwil

Actual

- \$LISTJOIN(-, Apple, Orange, Apple, Kiwi)=|Apple-Orange-Apple-Kiwil
- \$LISTJOIN(\$empty, Apple, Orange, Apple, Kiwi)=|AppleOrangeAppleKiwil

\$LISTJOIN(\$n, Apple, Orange, Apple, Kiwi)=|Apple Orange Apple Kiwil

\$LISTJOIN(\$n, Apple, Orange, Apple, Kiwi)=|Apple Orange Apple Kiwil

Function LISTEACH

Expected

- \$LISTEACH(\$index: \$EVAL(2 * \$item), 3, 5, 7, 11)=|1: 6, 2: 10, 3: 14, 4: 22|
- \$LISTMAP(\$index: \$EVAL(2 * \$item), 3, 5, 7, 11)=|1: 6, 2: 10, 3: 14, 4: 22|

Actual

- \$LISTEACH(\$index: \$EVAL(2 * \$item), 3, 5, 7, 11)=|1: 6, 2: 10, 3: 14, 4: 22|
- \$LISTMAP(\$index: \$EVAL(2 * \$item), 3, 5, 7, 11)=|1: 6, 2: 10, 3: 14, 4: 22|

Function LISTNONEMPTY

Expected

- \$LISTNONEMPTY(, Apple, Orange, , Kiwi)=|Apple, Orange, Kiwil

Actual

- \$LISTNONEMPTY(, Apple, Orange, , Kiwi)=|Apple, Orange, Kiwil

Function LISTRAND

Expected

- \$LISTRAND(Apple, Apple, Apple)=|Apple|
- Manual test: \$LISTRAND(Apple, Orange, Apple, Kiwi)=|(one of the four)|

Actual

- \$LISTRAND(Apple, Apple, Apple)=|Apple|
- Manual test: \$LISTRAND(Apple, Orange, Apple, Kiwi)=|Apple|

Function LISTREVERSE

Expected

- \$LISTREVERSE(Apple, Orange, Apple, Kiwi)=|Kiwi, Apple, Orange, Apple|

Actual

- \$LISTREVERSE(Apple, Orange, Apple, Kiwi)=|Kiwi, Apple, Orange, Apple|

Function LISTSHUFFLE

Expected

- \$LISTSHUFFLE(Apple, Apple, Apple)=|Apple, Apple, Apple|
- Manual test: \$LISTSHUFFLE(Apple, Orange, Apple, Kiwi)=|(4 shuffled items)|

Actual

- \$LISTSHUFFLE(Apple, Apple, Apple)=|Apple, Apple, Apple|
- Manual test: \$LISTSHUFFLE(Apple, Orange, Apple, Kiwi)=|Orange, Apple, Kiwi, Apple|

Function LISTSIZE

Expected

- \$LISTSIZE(Apple, Orange, Apple, Kiwi)=|4|
- \$LISTSIZE()=|0|

Actual

- \$LISTSIZE(Apple, Orange, Apple, Kiwi)=|4|
- \$LISTSIZE()=|0|

Function LISTSORT

Expected

- \$LISTSORT(Apple, Orange, Apple, Kiwi)=|Apple, Apple, Kiwi, Orange|

Actual

- \$LISTSORT(Apple, Orange, Apple, Kiwi)=|Apple, Apple, Kiwi, Orange|

Function LISTTRUNCATE

Expected

- \$LISTTRUNCATE(2, Apple, Orange, Apple, Kiwi)=|Apple, Orangel

Actual

- \$LISTTRUNCATE(2, Apple, Orange, Apple, Kiwi)=|Apple, Orangel

Function LISTUNIQUE

Expected

- \$LISTUNIQUE(Apple, Orange, Apple, Kiwi)=|Apple, Orange, Kiwil

Actual

- \$LISTUNIQUE(Apple, Orange, Apple, Kiwi)=|Apple, Orange, Kiwil

Function LN

Expected

- \$LN(10)=|2.30258509299405|

Actual

- \$LN(10)=|2.30258509299405|

Function LOG

Expected

- \$LOG(1000)=|3|
- \$LOG(16, 2)=|4|

Actual

- \$LOG(1000)=|3|
- \$LOG(16, 2)=|4|

Function LOWER

Expected

- \$LOWER(this BECOMES a lower cASE String)=|this becomes a lower case string|

Actual

- \$LOWER(this BECOMES a lower cASE String)=|this becomes a lower case string|

Function MAX

Expected

- \$MAX(7, 99, 2, 5)=|99|
- \$MAX(A, 99, 2, 5)=|99|
- \$MAX(A, B)=||
- \$MAX()=||

Actual

- \$MAX(7, 99, 2, 5)=|99|
- \$MAX(A, 99, 2, 5)=|99|
- \$MAX(A, B)=||
- \$MAX()=||

Function MEDIAN

Expected

- \$MEDIAN(3, 9, 4, 5)=|4.5|

Actual

- \$MEDIAN(3, 9, 4, 5)=|4.5|

Function MIN**Expected**

- \$MIN(7, 99, 2, 5)=|2|
- \$MIN(A, 99, 2, 5)=|2|
- \$MIN(A, B)=|
- \$MIN()=|

Actual

- \$MIN(7, 99, 2, 5)=|2|
- \$MIN(A, 99, 2, 5)=|2|
- \$MIN(A, B)=|
- \$MIN()=|

Function MOD**Expected**

- \$MOD(7, 3)=|1|
- \$MOD(7)=|0|
- \$MOD()=|0|

Actual

- \$MOD(7, 3)=|1|
- \$MOD(7)=|0|
- \$MOD()=|0|

Function NOEXEC**Expected**

- \$SET(msg, \$NOEXEC(Hi \$GET(name)))=|
- \$SET(name, Jane)\$EXEC(\$GET(msg))=|Hi Janel

Actual

- \$SET(msg, \$NOEXEC(Hi \$GET(name)))=|
- \$SET(name, Jane)\$EXEC(\$GET(msg))=|Hi Janel

Function NOP**Expected**

- \$NOP(100\$percent \$quoted\$quot)=|100% "quoted"|
- \$NOP()=|

Actual

- \$NOP(100\$percent \$quoted\$quot)=|100% "quoted"|
- \$NOP()=|

Function NOT

Expected Actual

- \$NOT(1)=|0|
- \$NOT(0)=|1|
- \$NOT(1234)=|0|
- \$NOT(1234)=|0|
- \$NOT(1234)=|1|
- \$NOT(1234)=|1|

Function NOTE**Expected Actual**

- \$NOTE(some text)=|
- \$NOTE(some text)=|
- \$NOTE(1)=|
- \$NOTE(1)=|

Function OCT2DEC**Expected Actual**

- \$OCT2DEC(54)=|44|
- \$OCT2DEC(54)=|44|
- \$OCT2DEC(7777533)=|16777051|
- \$OCT2DEC(7777533)=|16777051|
- \$OCT2DEC(1)=|1|
- \$OCT2DEC(1)=|1|

Function ODD**Expected Actual**

- \$ODD(2)=|0|
- \$ODD(2)=|0|
- \$ODD(3)=|1|
- \$ODD(3)=|1|
- \$ODD(3.5)=|1|
- \$ODD(3.5)=|1|
- \$ODD(-4)=|0|
- \$ODD(-4)=|0|
- \$ODD(1)=|1|
- \$ODD(1)=|1|

Function OR**Expected Actual**

- \$OR(1)=|1|
- \$OR(0)=|0|
- \$OR(1)=|1|
- \$OR(0, 0)=|0|
- \$OR(0, 1)=|1|
- \$OR(1, 0)=|1|
- \$OR(1, 1)=|1|
- \$OR(0, 1, 2, 3)=|1|
- \$OR(1, 2, 3, 4)=|1|
- \$OR(1)=|1|
- \$OR(0)=|0|
- \$OR(1)=|1|
- \$OR(0, 0)=|0|
- \$OR(0, 1)=|1|
- \$OR(1, 0)=|1|
- \$OR(1, 1)=|1|
- \$OR(1, 0, 1)=|1|
- \$OR(1, 0, 1)=|1|
- \$OR(0, 1, 2)=|1|

- 3)=|1|
- \$OR(1,
2, 3,
4)=|1|

Function PERCENTILE

Expected

- \$PERCENTILE(75, 400, 200, 500, 100, 300)=|450|
- \$PERCENTILE(60)=|0|
- \$PERCENTILE()=|0|

Actual

- \$PERCENTILE(75, 400, 200, 500, 100, 300)=|450|
- \$PERCENTILE(60)=|0|
- \$PERCENTILE()=|0|

Function PI

Expected

- \$PI()=|3.14159265358979|

Actual

- \$PI()=|3.14159265358979|

Function PRODUCT

Expected

- \$PRODUCT(0,4)=|0|
- \$PRODUCT(1,4)=|4|
- \$PRODUCT(2,4)=|8|
- \$PRODUCT(1,2,3,4)=|24|
- \$PRODUCT(1)=|1|
- \$PRODUCT(0)=|0|
- \$PRODUCT()=|1|
- \$MULT(1,2,3,4)=|24|

Actual

- \$PRODUCT(0,4)=|0|
- \$PRODUCT(1,4)=|4|
- \$PRODUCT(2,4)=|8|
- \$PRODUCT(1,2,3,4)=|24|
- \$PRODUCT(1)=|1|
- \$PRODUCT(0)=|0|
- \$PRODUCT()=|1|
- \$MULT(1,2,3,4)=|24|

Function PROPER

Expected

- \$PROPER(a small STEP)=|A Small Step|
- \$PROPER(f1 (formula-1))=|F1 (Formula-1)|
- \$PROPER()=| |

Actual

- \$PROPER(a small STEP)=|A Small Step|
- \$PROPER(f1 (formula-1))=|F1 (Formula-1)|
- \$PROPER()=| |

Function PROPERSPACE

Expected

- \$PROPERSPACE(Old MacDonald had a ServerFarm, EeEyeEeEyeOh)=|Old ServerFarm, EeEyeEeEyeOh|

Actual

- \$PROPERSPACE(Old MacDonald had a ServerFarm, EeEyeEeEyeOh)=|Old ServerFarm, EeEyeEeEyeOh|

MacDonald had a Server Farm, Ee Eye Ee
 Eye Ohl
 • \$PROPERSPACE()=ll

MacDonald had a Server Farm, Ee Eye Ee
 Eye Ohl
 • \$PROPERSPACE()=ll

Function RAND

Expected

- \$IF(\$RAND()<=1, OK, not OK)=|OK|
- Manual test: \$RAND(10), \$RAND(10), \$RAND(10)=|(three random numbers between 0 and 10)|
- Manual test: \$RAND(), \$RAND(), \$RAND()=|(three random numbers between 0 and 1)|

Actual

- \$IF(\$RAND()<=1, OK, not OK)=|OK|
- Manual test: \$RAND(10), \$RAND(10), \$RAND(10)=|1.95016653267409, 3.52619838698036, 9.99019839882536|
- Manual test: \$RAND(), \$RAND(), \$RAND()=|0.814860243423478, 0.706233477307357, 0.273814314016651|

Function RANDSTRING

Expected

- Manual test: \$RANDSTRING(), \$RANDSTRING(), \$RANDSTRING()=|(three random strings of 8 alphanumeric/underscore characters)|
- Manual test: \$RANDSTRING(A..NP..Z1..9, xxxx-xxxx-xxxx-xxxx), \$RANDSTRING(A..NP..Z1..9, xxxx-xxxx-xxxx-xxxx), \$RANDSTRING(A..NP..Z1..9, xxxx-xxxx-xxxx-xxxx)=|(three random strings, each of format xxxx-xxxx-xxxx-xxxx, composed of uppercase letters and numbers excluding letter O and number 0)|

Actual

- Manual test: \$RANDSTRING(), \$RANDSTRING(), \$RANDSTRING()=|bAqRUnp1, lL7EpzFC, OodQ5DFH|
- Manual test: \$RANDSTRING(A..NP..Z1..9, xxxx-xxxx-xxxx-xxxx), \$RANDSTRING(A..NP..Z1..9, xxxx-xxxx-xxxx-xxxx), \$RANDSTRING(A..NP..Z1..9, xxxx-xxxx-xxxx-xxxx)=|TL2U-VL94-6PAR-EAM5, NHFE-VUGX-PVQR-57RR, K5B7-D5J2-JXMK-76ZR|

Function REPEAT

Expected

- \$REPEAT(Λ, 10)=|ΛΛΛΛΛΛΛΛΛΛ|
- \$REPEAT(x)=|x|
- \$REPEAT()=| |

Actual

- \$REPEAT(Λ, 10)=|ΛΛΛΛΛΛΛΛΛΛ|
- \$REPEAT(x)=|x|
- \$REPEAT()=| |

Function REPLACE

Expected

- \$REPLACE(abcd, 2, 1, X)=|aXcd|
- \$REPLACE(1023, 2, 1, X)=|1X23|
- \$REPLACE(z_1023, 4, 1, X)=|z_1X23|
- \$REPLACE(abcd, 2, 1)=|acd|
- \$REPLACE(abcd, 2, 0)=|abcd|
- \$REPLACE(abcd, 1, 3)=|d|
- \$REPLACE(abcd, 1, 4)=||
- \$REPLACE(abcd, 1, 4, YYYY)=|YYYY|
- \$REPLACE(abcd, 2, 4, YYYY)=|aYYYY|
- \$REPLACE(abcdefghijk,6,5,*)=|abcde*kl|
- \$REPLACE(abcd)=|abcd|
- \$REPLACE()=||

Actual

- \$REPLACE(abcd, 2, 1, X)=|aXcd|
- \$REPLACE(1023, 2, 1, X)=|1X23|
- \$REPLACE(z_1023, 4, 1, X)=|z_1X23|
- \$REPLACE(abcd, 2, 1)=|acd|
- \$REPLACE(abcd, 2, 0)=|abcd|
- \$REPLACE(abcd, 1, 3)=|d|
- \$REPLACE(abcd, 1, 4)=||
- \$REPLACE(abcd, 1, 4, YYYY)=|YYYY|
- \$REPLACE(abcd, 2, 4, YYYY)=|aYYYY|
- \$REPLACE(abcdefghijk,6,5,*)=|abcde*kl|
- \$REPLACE(abcd)=|abcd|
- \$REPLACE()=||

Function RIGHT

Expected

Actual

\$SUM(\$RIGHT())= 3	1	2	\$SUM(\$RIGHT())=	3	1	2
\$SUM(\$RIGHT())= 7	3	4	\$SUM(\$RIGHT())=	7	3	4

Function RIGHTSTRING

Expected

Actual

- \$RIGHTSTRING(abcdefg)=|g|
- \$RIGHTSTRING(abcdefg, 0)=|g|
- \$RIGHTSTRING(abcdefg, 1)=|g|
- \$RIGHTSTRING(abcdefg, 2)=|fg|
- \$RIGHTSTRING()=||
- \$RIGHTSTRING(abcdefg)=|g|
- \$RIGHTSTRING(abcdefg, 0)=|g|
- \$RIGHTSTRING(abcdefg, 1)=|g|
- \$RIGHTSTRING(abcdefg, 2)=|fg|
- \$RIGHTSTRING()=||

Function ROUND

Expected

Actual

- \$ROUND(3.15, 1)=|3.2|
- \$ROUND(3.149, 1)=|3.1|
- \$ROUND(-2.475, 2)=|-2.48|
- \$ROUND(3.15, 1)=|3.2|
- \$ROUND(3.149, 1)=|3.1|
- \$ROUND(-2.475, 2)=|-2.48|

- | | |
|-------------------------|-------------------------|
| • \$ROUND(34.9, -1)= 30 | • \$ROUND(34.9, -1)= 30 |
| • \$ROUND(12.34)= 12 | • \$ROUND(12.34)= 12 |
| • \$ROUND(12.51)= 13 | • \$ROUND(12.51)= 13 |
| • \$ROUND()= 0 | • \$ROUND()= 0 |

Function ROW

Expected

Actual

\$ROW()=1	\$ROW()=1	\$ROW()=1	\$ROW()=1
\$ROW()=2	\$ROW(10)=12	\$ROW()=2	\$ROW(10)=12
\$ROW()=3	\$ROW(-10)=-7	\$ROW()=3	\$ROW(-10)=-7

Function SEARCH

Expected

Actual

- | | |
|--------------------------------|--------------------------------|
| • \$SEARCH([uy], fluffy)= 3 | • \$SEARCH([uy], fluffy)= 3 |
| • \$SEARCH([uy], fluffy, 4)= 6 | • \$SEARCH([uy], fluffy, 4)= 6 |
| • \$SEARCH([abc], fluffy,)= 0 | • \$SEARCH([abc], fluffy,)= 0 |
| • \$SEARCH(abc)= 0 | • \$SEARCH(abc)= 0 |
| • \$SEARCH()= 0 | • \$SEARCH()= 0 |

Function SET

Expected

Actual

- | | |
|----------------------------------|----------------------------------|
| • \$SET(test, 1234)= | • \$SET(test, 1234)= |
| • \$GET(test)= 1234 | • \$GET(test)= 1234 |
| • \$SET(sum, \$SUM(1, 2, 3, 4))= | • \$SET(sum, \$SUM(1, 2, 3, 4))= |
| • \$GET(sum)= 10 | • \$GET(sum)= 10 |
| • \$SET(novalue)= | • \$SET(novalue)= |
| • \$GET(novalue)= | • \$GET(novalue)= |
| • \$SET()= | • \$SET()= |

Function SETHASH

Expected

Actual

- | | |
|-----------------------------|-----------------------------|
| • \$SETHASH()= | • \$SETHASH()= |
| • \$SETHASH(age, Jane, 26)= | • \$SETHASH(age, Jane, 26)= |
| • \$GETHASH(age, Jane)= 26 | • \$GETHASH(age, Jane)= 26 |
| • \$GETHASH()= age | • \$GETHASH()= age |

Function SETIFEMPTY

Expected

- \$SET(test, 1234)=|1234|
- \$SETIFEMPTY(test, 1)=|1|
- \$GET(test)=|1234|
- \$SET(test, 0)=|0|
- \$SETIFEMPTY(test, 2)=|2|
- \$GET(test)=|2|
- \$SET(test,)=|0|
- \$SETIFEMPTY(test, 3)=|3|
- \$GET(test)=|3|

Actual

- \$SET(test, 1234)=|1234|
- \$SETIFEMPTY(test, 1)=|1|
- \$GET(test)=|1234|
- \$SET(test, 0)=|0|
- \$SETIFEMPTY(test, 2)=|2|
- \$GET(test)=|2|
- \$SET(test,)=|0|
- \$SETIFEMPTY(test, 3)=|3|
- \$GET(test)=|3|

Function SETLIST

Expected

- \$SETLIST(test, 1, "2, 2.a, 2.b", 3, 4)=|1, 2, 2.a, 2.b, 3, 4|
- \$GETLIST(test)=|1, 2, 2.a, 2.b, 3, 4|
- \$LISTJOIN(;, \$GETLIST(test))=|1; 2, 2.a, 2.b; 3; 4|
- \$SETLIST(novalue)=|0|
- \$GETLIST(novalue)=|0|
- \$SETLIST()=|0|

Actual

- \$SETLIST(test, 1, "2, 2.a, 2.b", 3, 4)=|1, 2, 2.a, 2.b, 3, 4|
- \$GETLIST(test)=|1, 2, 2.a, 2.b, 3, 4|
- \$LISTJOIN(;, \$GETLIST(test))=|1; 2, 2.a, 2.b; 3; 4|
- \$SETLIST(novalue)=|0|
- \$GETLIST(novalue)=|0|
- \$SETLIST()=|0|

Function SETM

Expected

- \$SET(total, 10)=|10|
- \$SETM(total, +5)=|15|
- \$SETM(total)=|10|
- \$GET(total)=|15|
- \$SETM()=|0|

Actual

- \$SET(total, 10)=|10|
- \$SETM(total, +5)=|15|
- \$SETM(total)=|10|
- \$GET(total)=|15|
- \$SETM()=|0|

Function SETMHASH

Expected

- \$SETHASH(count)=||
- \$LISTJOIN(
\$LISTEACH(\$SETMHASH(count, \$item,
+1), Anna, Jane, Berta, Charlie, Jane, Tom,
Anna, Jane))=||
- \$HASH2LIST(count, \$key: \$value)=|Anna: 2,
Berta: 1, Charlie: 1, Jane: 3, Tom: 1|
- \$SETMHASH(count, Jane, +1)=||
- \$SETMHASH(count, Jane)=||
- \$HASH2LIST(count, \$key: \$value)=|Anna: 2,
Berta: 1, Charlie: 1, Jane: 4, Tom: 1|

Actual

- \$SETHASH(count)=||
- \$LISTJOIN(
\$LISTEACH(\$SETMHASH(count, \$item,
+1), Anna, Jane, Berta, Charlie, Jane, Tom,
Anna, Jane))=||
- \$HASH2LIST(count, \$key: \$value)=|Anna: 2,
Berta: 1, Charlie: 1, Jane: 3, Tom: 1|
- \$SETMHASH(count, Jane, +1)=||
- \$SETMHASH(count, Jane)=||
- \$HASH2LIST(count, \$key: \$value)=|Anna: 2,
Berta: 1, Charlie: 1, Jane: 4, Tom: 1|

Function SIGN**Expected Actual**

- \$SIGN(12.34)=|1|
- \$SIGN(2)=|1|
- \$SIGN(0)=|0|
- \$SIGN(-2)=|-1|

Function SPLIT**Expected**

- \$SPLIT(, Apple Orange Kiwi)=|Apple,
Orange, Kiwil
- \$SPLIT(-, Apple-Orange-Kiwi)=|Apple,
Orange, Kiwil
- \$SPLIT([-:]\s*, Apple-Orange:
Kiwi)=|Apple, Orange, Kiwil
- \$SPLIT(\$empty, Apple)=|A, p, p, l, el
- \$SPLIT(x)=||
- \$SPLIT()=||

Actual

- \$SPLIT(, Apple Orange Kiwi)=|Apple,
Orange, Kiwil
- \$SPLIT(-, Apple-Orange-Kiwi)=|Apple,
Orange, Kiwil
- \$SPLIT([-:]\s*, Apple-Orange:
Kiwi)=|Apple, Orange, Kiwil
- \$SPLIT(\$empty, Apple)=|A, p, p, l, el
- \$SPLIT(x)=||
- \$SPLIT()=||

Function SQRT**Expected Actual**

- \$SQRT(16)=|4|
- \$SQRT(1)=|1|
- \$SQRT()=|0|

Function STDEV

Expected

- \$STDEV(2, 4, 4, 4, 5, 5, 7, 9)=|2.1380899352994|
- \$STDEV(2, 5, 3, 12)=|4.50924975282289|
- \$STDEV(2, 5, 3, xyz, 12)=|4.50924975282289|
- \$STDEV(3.50, 5.00, 7.23, 2.99)=|1.90205152401295|
- \$STDEV()=|0|

Actual

- \$STDEV(2, 4, 4, 4, 5, 5, 7, 9)=|2.1380899352994|
- \$STDEV(2, 5, 3, 12)=|4.50924975282289|
- \$STDEV(2, 5, 3, xyz, 12)=|4.50924975282289|
- \$STDEV(3.50, 5.00, 7.23, 2.99)=|1.90205152401295|
- \$STDEV()=|0|

Function STDEVP**Expected**

- \$STDEVP(2, 5, 3, 12)=|3.90512483795333|
- \$STDEVP(2, 5, 3, xyz, 12)=|3.90512483795333|
- \$STDEVP(3.50, 5.00, 7.23, 2.99)=|1.64722493910213|
- \$STDEVP()=|0|

Actual

- \$STDEVP(2, 5, 3, 12)=|3.90512483795333|
- \$STDEVP(2, 5, 3, xyz, 12)=|3.90512483795333|
- \$STDEVP(3.50, 5.00, 7.23, 2.99)=|1.64722493910213|
- \$STDEVP()=|0|

Function SUBSTITUTE**Expected**

- \$SUBSTITUTE(Good morning, morning, day)=|Good day|
- \$SUBSTITUTE("Good, early morning", morning, "day")=|Good, early day|
- \$SUBSTITUTE(Q2-2012, 2, 3)=|Q3-3013|
- \$SUBSTITUTE(Q2-2012,2, 3, 3)=|Q2-2013|
- \$SUBSTITUTE(abc123def, [0-9], 9, , r)=|abc999def|
- \$SUBSTITUTE(abcd)=|abcd|
- \$SUBSTITUTE()=||

Actual

- \$SUBSTITUTE(Good morning, morning, day)=|Good day|
- \$SUBSTITUTE("Good, early morning", morning, "day")=|Good, early day|
- \$SUBSTITUTE(Q2-2012, 2, 3)=|Q3-3013|
- \$SUBSTITUTE(Q2-2012,2, 3, 3)=|Q2-2013|
- \$SUBSTITUTE(abc123def, [0-9], 9, , r)=|abc999def|
- \$SUBSTITUTE(abcd)=|abcd|
- \$SUBSTITUTE()=||

Function SUBSTRING**Expected**

- \$SUBSTRING(abcdef,3,5)=|cdef|
- \$SUBSTRING(abcdefgh,3,5)=|cdefg|
- \$SUBSTRING(abcdefgh,8,5)=|hl|
- \$SUBSTRING(abcdefgh,9,5)=||
- \$SUBSTRING(abcdefg,-2,2)=|fg|
- \$SUBSTRING(abcdefg,-1,2)=|gl|
- \$SUBSTRING(abcdefg,-7,2)=|abl|
- \$SUBSTRING(abcdefg,-8,2)=||
- \$SUBSTRING(abcdefg,0,2)=||
- \$SUBSTRING(abcdefg,1,2)=|abl|

Actual

- \$SUBSTRING(abcdef,3,5)=|cdef|
- \$SUBSTRING(abcdefgh,3,5)=|cdefg|
- \$SUBSTRING(abcdefgh,8,5)=|hl|
- \$SUBSTRING(abcdefgh,9,5)=||
- \$SUBSTRING(abcdefg,-2,2)=|fg|
- \$SUBSTRING(abcdefg,-1,2)=|gl|
- \$SUBSTRING(abcdefg,-7,2)=|abl|
- \$SUBSTRING(abcdefg,-8,2)=||
- \$SUBSTRING(abcdefg,0,2)=||
- \$SUBSTRING(abcdefg,1,2)=|abl|

- \$SUBSTRING(abcdefg,2,2)=|bcl
- \$SUBSTRING(abcdefg,2,-1)=|bcdefl
- \$SUBSTRING(abcdefg,-2,-1)=|fl
- \$SUBSTRING(abc,def,3,3)=|c,dl
- \$SUBSTRING(abcdefg)=||
- \$SUBSTRING()=||
- \$SUBSTRING(abcdefg,2,2)=|bcl
- \$SUBSTRING(abcdefg,2,-1)=|bcdefl
- \$SUBSTRING(abcdefg,-2,-1)=|fl
- \$SUBSTRING(abc,def,3,3)=|c,dl
- \$SUBSTRING(abcdefg)=||
- \$SUBSTRING()=||

Function SUM

- | Expected | Actual |
|----------------------------|----------------------------|
| • \$SUM(1, 2, 3, 4, 5)= 15 | • \$SUM(1, 2, 3, 4, 5)= 15 |
| • \$SUM(1, x, 3, , 5)= 9 | • \$SUM(1, x, 3, , 5)= 9 |
| • \$SUM(1)= 1 | • \$SUM(1)= 1 |
| • \$SUM()= 0 | • \$SUM()= 0 |

Function SUMDAYS

- | Expected | Actual |
|----------------------------------|----------------------------------|
| • \$SUMDAYS(2w, 1, 2d, 4h)= 13.5 | • \$SUMDAYS(2w, 1, 2d, 4h)= 13.5 |
| • \$SUMDAYS(1w, x)= 5 | • \$SUMDAYS(1w, x)= 5 |
| • \$SUMDAYS()= 0 | • \$SUMDAYS()= 0 |

Function SUMPRODUCT

Expected	Actual
1	1
3	3
\$SUMPRODUCT(R1:C1..R2:C1, R1:C2..R2:C2)= 14	\$SUMPRODUCT(R1:C1..R2:C1, \$ABOVE())= 14
	\$SUMPRODUCT(R1:C1..R2:C1, R1:C2..R2:C2)= 14
	\$SUM
	\$ABO

Function T

Expected	Actual
1	1
3	3
\$T(R2:C1)= 3	\$T(R2:C1)= 3
\$T(R1:C2)= 2	\$T(R1:C2)= 2

Function TIME

Expected

- `$TIME(2012-12-31 GMT)=|1356912000|`
- Manual test:
`$TIME($FORMATTIME($TIME(),
$year-$mo-$day))=|(today)|`

Actual

- `$TIME(2012-12-31 GMT)=|1356912000|`
- Manual test:
`$TIME($FORMATTIME($TIME(),
$year-$mo-$day))=|2022-05-17|`

Function TIMEADD

Expected

- `$FORMATTIME($TIMEADD($TIME(2012-12-31), 2, day), $year-$mo-$day)=|2013-01-02|`
- `$FORMATTIME($TIMEADD($TIME(2012-12-31), 2, year), $year-$mo-$day)=|2014-12-31|`
- `$TIMEADD($TIME(2012-12-31 GMT), 10)=|1356912010|`
- `$TIMEADD($TIME(2012-12-31 GMT), 10, sec)=|1356912010|`
- `$TIMEADD($TIME(2012-12-31 GMT), 2, min)=|1356912120|`
- `$TIMEADD()=|0|`

Actual

- `$FORMATTIME($TIMEADD($TIME(2012-12-31), 2, day), $year-$mo-$day)=|2013-01-02|`
- `$FORMATTIME($TIMEADD($TIME(2012-12-31), 2, year), $year-$mo-$day)=|2014-12-31|`
- `$TIMEADD($TIME(2012-12-31 GMT), 10)=|1356912010|`
- `$TIMEADD($TIME(2012-12-31 GMT), 10, sec)=|1356912010|`
- `$TIMEADD($TIME(2012-12-31 GMT), 2, min)=|1356912120|`
- `$TIMEADD()=|0|`

Function TIMEDIFF

Expected

- `$TIMEDIFF($TIME(), $EVAL($TIME()+90), minute)=|1.5|`
- `$TIMEDIFF($ROUND($TIMEDIFF($TIME(2012-12-06), $TIME(2012-12-13), day)))=|7|`
- `$TIMEDIFF()=|0|`

Actual

- `$TIMEDIFF($TIME(), $EVAL($TIME()+90), minute)=|1.5|`
- `$TIMEDIFF($ROUND($TIMEDIFF($TIME(2012-12-06), $TIME(2012-12-13), day)))=|7|`
- `$TIMEDIFF()=|0|`

Function TODAY

Expected

- (can't be tested automatically)
- Manual test:
`$TIME($FORMATTIME($TODAY(),
$year-$mo-$day $hour:$min:$sec
GMT))=|(this morning midnight GMT)|`

Actual

- (can't be tested automatically)
- Manual test:
`$TIME($FORMATTIME($TODAY(),
$year-$mo-$day $hour:$min:$sec
GMT))=|2022-05-17 00:00:00 GMT|`

Function TRANSLATE

Expected

- \$TRANSLATE(boom,bm,cl)=lcool
- \$TRANSLATE(one, two,\$comma,;)=lone; twol
- \$TRANSLATE()=||

Actual

- \$TRANSLATE(boom,bm,cl)=lcool
- \$TRANSLATE(one, two,\$comma,;)=lone; twol
- \$TRANSLATE()=||

Function TRIM

Expected

- \$TRIM(eat spaces)=leat spacesl
- \$TRIM()=||

Actual

- \$TRIM(eat spaces)=leat spacesl
- \$TRIM()=||

Function UPPER

Expected

- \$UPPER(this beCOMES an UPPER cASE String)=|THIS BECOMES AN UPPER CASE STRING|
- \$UPPER()=||

Actual

- \$UPPER(this beCOMES an UPPER cASE String)=|THIS BECOMES AN UPPER CASE STRING|
- \$UPPER()=||

Function VALUE

Expected

- \$VALUE(US\$1,200)=|1200|
- \$VALUE(PrjNotebook1234)=|1234|
- \$VALUE(Total: -12.5)=|-12.5|
- \$VALUE()=|0|

Actual

- \$VALUE(US\$1,200)=|1200|
- \$VALUE(PrjNotebook1234)=|1234|
- \$VALUE(Total: -12.5)=|-12.5|
- \$VALUE()=|0|

Function VAR

Expected

- \$VAR(1, 2, 3, 4, 5, 6)=|3.5|
- \$VAR(2, 5, 3, 12)=|20.3333333333333|
- \$VAR(2, 5, 3, xyz, 12)=|20.3333333333333|
- \$VAR(3.50, 5.00, 7.23, 2.99)=|3.6178|
- \$VAR()=|0|

Actual

- \$VAR(1, 2, 3, 4, 5, 6)=|3.5|
- \$VAR(2, 5, 3, 12)=|20.3333333333333|
- \$VAR(2, 5, 3, xyz, 12)=|20.3333333333333|
- \$VAR(3.50, 5.00, 7.23, 2.99)=|3.6178|
- \$VAR()=|0|

Function VARP

Expected

- \$VARP(1, 2, 3, 4, 5, 6)=|2.91666666666667|
- \$VARP(2, 5, 3, 12)=|15.25|
- \$VARP(2, 5, 3, xyz, 12)=|15.25|
- \$VARP(3.50, 5.00, 7.23, 2.99)=|2.71335|
- \$VARP()=|0|

Actual

- \$VARP(1, 2, 3, 4, 5, 6)=|2.91666666666667|
- \$VARP(2, 5, 3, 12)=|15.25|
- \$VARP(2, 5, 3, xyz, 12)=|15.25|
- \$VARP(3.50, 5.00, 7.23, 2.99)=|2.71335|
- \$VARP()=|0|

Function WHILE

Expected

- \$WHILE(\$counter<=10, \$counter)=|1 2 3 4 5 6 7 8 9 10|
- \$SET(i, 0)\$WHILE(\$GET(i)<10, \$SETM(i, +1) \$EVAL(\$GET(i) * \$GET(i)),)=| 1, 4, 9, 16, 25, 36, 49, 64, 81, 100, |
- \$WHILE()=||

Actual

- \$WHILE(\$counter<=10, \$counter)=|1 2 3 4 5 6 7 8 9 10|
- \$SET(i, 0)\$WHILE(\$GET(i)<10, \$SETM(i, +1) \$EVAL(\$GET(i) * \$GET(i)),)=| 1, 4, 9, 16, 25, 36, 49, 64, 81, 100, |
- \$WHILE()=||

Function WORKINGDAYS

Expected

- \$WORKINGDAYS(\$TIME(2012-07-15 GMT), \$TIME(2012-08-03 GMT))=|14|
- \$WORKINGDAYS()=|0|

Actual

- \$WORKINGDAYS(\$TIME(2012-07-15 GMT), \$TIME(2012-08-03 GMT))=|14|
- \$WORKINGDAYS()=|0|

Function XOR

Expected

- \$XOR(0)=|0|
- \$XOR(1)=|0|
- \$XOR(0, 0)=|0|
- \$XOR(0, 1)=|1|
- \$XOR(1, 0)=|1|
- \$XOR(1, 1)=|0|
- \$XOR(0, 1, 2, 3)=|1|
- \$XOR(1, 2, 3, 4)=|0|
- \$XOR()=|0|

Actual

- \$XOR(0)=|0|
- \$XOR(1)=|0|
- \$XOR(0, 0)=|0|
- \$XOR(0, 1)=|1|
- \$XOR(1, 0)=|1|
- \$XOR(1, 1)=|0|
- \$XOR(0, 1, 2, 3)=|1|
- \$XOR(1, 2, 3, 4)=|0|
- \$XOR(0, 1, 2, 3)=|1|
- \$XOR(1, 2, 3, 4)=|0|

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- $\$XOR()=|0|$
- Set EDITMETHOD = raw

Related Topics: SpreadSheetPlugin, VarCALC, VarCALCULATE

-- TWiki:Main.PeterThoeny [↗](#) - 2014-10-24

This topic: TWiki > SpreadSheetPluginTestCases

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