

Default options

This is test output of the `ionumbers` L^AT_EX package. The default L^AT_EX output, the output with `ionumbers` package and the expected output with `ionumbers` package is given for different inputs.

If the package `ionumbers` works correctly, the contents in the ‘`ionumbers`’ columns and the respective contents in the ‘`expected`’ columns must be identical.

input	L ^A T _E X	<code>ionumbers</code>	<code>expected</code>
simple digits			
\$1\$	1	1	1
\$12\$	12	12	12
\$123\$	123	123	123
\$1234\$	1234	1234	1234
\$12345\$	12345	12345	12345
\$123456\$	123456	123456	123456
\$1234567\$	1234567	1234567	1234567
point			
\$.1\$	.1	.1	.1
\$1.\$	1.	1.	1.
\$1.1\$	1.1	1.1	1.1
\$1. 2\$	1.2	1.2	1.2
\$1 .2\$	1.2	1.2	1.2
\$1.23456\$	1.23456	1.23456	1.23456
\$12345.6\$	12345.6	12345.6	12345.6
\$1.23.456\$	1.23.456	1.23.456	1.23.456
\$a.b\$	<i>a.b</i>	<i>a.b</i>	<i>a.b</i>
\$a.1\$	<i>a.1</i>	<i>a.1</i>	<i>a.1</i>
\$1.a\$	<i>1.a</i>	<i>1.a</i>	<i>1.a</i>
comma			
\$,1\$	,1	,1	,1
\$1,\$	1,	1,	1,
\$1,1\$	1,1	1,1	1,1
\$1, 2\$	1,2	1,2	1,2
\$1 ,2\$	1,2	1,2	1,2
\$1,23456\$	1,23456	1,23456	1,23456
\$12345,6\$	12345,6	12345,6	12345,6
\$1,23,456\$	1,23,456	1,23,456	1,23,456
\$a,b\$	<i>a,b</i>	<i>a,b</i>	<i>a,b</i>
\$a,1\$	<i>a,1</i>	<i>a,1</i>	<i>a,1</i>
\$1,a\$	<i>1,a</i>	<i>1,a</i>	<i>1,a</i>

input	L ^A T _E X	ionumbers	expected
plus and minus			
$\$+1\$$	+1	+1	+1
$\$-1\$$	-1	-1	-1
$\$++1\$$	+ + 1	+ + 1	+ + 1
$\$+ +1\$$	+ + 1	+ + 1	+ + 1
$\$+ + 1\$$	+ + 1	+ + 1	+ + 1
$\$1+2\$$	1 + 2	1 + 2	1 + 2
$\$1+ 2\$$	1 + 2	1 + 2	1 + 2
$\$1 +2\$$	1 + 2	1 + 2	1 + 2
$\$1 + 2\$$	1 + 2	1 + 2	1 + 2
$\$1++2\$$	1 + + 2	1 + + 2	1 + + 2
$\$x+1\$$	$x + 1$	$x + 1$	$x + 1$
$\$1+x\$$	$1 + x$	$1 + x$	$1 + x$
$\$x+y\$$	$x + y$	$x + y$	$x + y$
letter ‘e’			
$\$1e1234\$$	1e1234	1e1234	1e1234
$\$1e+1234\$$	1e + 1234	1e + 1234	1e + 1234
$\$1e.\$$	1e.	1e.	1e.
$\$1e,\$$	1e,	1e,	1e,
$\$1e.1234\$$	1e.1234	1e.1234	1e.1234
$\$1e,1234\$$	1e,1234	1e,1234	1e,1234
$\$1e++1234\$$	1e + + 1234	1e + + 1234	1e + + 1234
$\$1e 1234\$$	1e1234	1e1234	1e1234
$\$1e +1234\$$	1e + 1234	1e + 1234	1e + 1234
$\$1 e1234\$$	1e1234	1e1234	1e1234
mixed numbers			
$\$1.234,890\$$	1.234,890	1.234,890	1.234,890
$\$1,234.890\$$	1,234.890	1,234.890	1,234.890
$\$1234e5678\$$	1234e5678	1234e5678	1234e5678
$\$+1234e5678\$$	+1234e5678	+1234e5678	+1234e5678
$\$1234e+5678\$$	1234e + 5678	1234e + 5678	1234e + 5678
$\$1.234e5.678\$$	1.234e5.678	1.234e5.678	1.234e5.678
$\$1,234e5,678\$$	1,234e5,678	1,234e5,678	1,234e5,678
single characters			
$\$\sqrt{1}\$$	$\sqrt{1}$	$\sqrt{1}$	$\sqrt{1}$
$\$\sqrt{1234}\$$	$\sqrt{1234}$	$\sqrt{1234}$	$\sqrt{1234}$
$\$\sqrt{+}\$$	$\sqrt{+}$	$\sqrt{+}$	$\sqrt{+}$
$\$\sqrt{++}\$$	$\sqrt{++}$	$\sqrt{++}$	$\sqrt{++}$
$\$\sqrt{+1234}\$$	$\sqrt{+1234}$	$\sqrt{+1234}$	$\sqrt{+1234}$
$\$1e\sqrt{+1234}\$$	$1e\sqrt{+1234}$	$1e\sqrt{+1234}$	$1e\sqrt{+1234}$
$\$1\sqrt{+1234e0}\$$	$1\sqrt{+1234e0}$	$1\sqrt{+1234e0}$	$1\sqrt{+1234e0}$

Options `autothousands=true`, `autothousandths=true`

This is test output of the `ionumbers` L^AT_EX package. The default L^AT_EX output, the output with `ionumbers` package and the expected output with `ionumbers` package is given for different inputs.

If the package `ionumbers` works correctly, the contents in the ‘`ionumbers`’ columns and the respective contents in the ‘`expected`’ columns must be identical.

input	L ^A T _E X	<code>ionumbers</code>	<code>expected</code>
simple digits			
\$1\$	1	1	1
\$12\$	12	12	12
\$123\$	123	123	123
\$1234\$	1234	1,234	1,234
\$12345\$	12345	12,345	12,345
\$123456\$	123456	123,456	123,456
\$1234567\$	1234567	1,234,567	1,234,567
point			
\$.1\$	.1	.1	.1
\$1.\$	1.	1.	1.
\$1.1\$	1.1	1.1	1.1
\$1.2\$	1.2	1.2	1.2
\$1.2\$	1.2	1.2	1.2
\$1.23456\$	1.23456	1.23456	1.23456
\$12345.6\$	12345.6	12,345.6	12,345.6
\$1.23.456\$	1.23.456	1.23.456	1.23.456
\$a.b\$	<i>a.b</i>	<i>a.b</i>	<i>a.b</i>
\$a.1\$	<i>a.1</i>	<i>a.1</i>	<i>a.1</i>
\$1.a\$	<i>1.a</i>	<i>1.a</i>	<i>1.a</i>
comma			
\$,1\$	,1	,1	,1
\$1,\$	1,	1,	1,
\$1,1\$	1,1	1,1	1,1
\$1,2\$	1,2	1,2	1,2
\$1,2\$	1,2	1,2	1,2
\$1,23456\$	1,23456	1,23456	1,23456
\$12345,6\$	12345,6	12345,6	12345,6
\$1,23,456\$	1,23,456	1,23,456	1,23,456
\$a,b\$	<i>a,b</i>	<i>a,b</i>	<i>a,b</i>
\$a,1\$	<i>a,1</i>	<i>a,1</i>	<i>a,1</i>
\$1,a\$	<i>1,a</i>	<i>1,a</i>	<i>1,a</i>

input	L ^A T _E X	ionumbers	expected
plus and minus			
$\$+1\$$	+1	+1	+1
$\$-1\$$	-1	-1	-1
$\$++1\$$	++1	++1	++1
$\$+ +1\$$	++1	++1	++1
$\$+ + 1\$$	++1	++1	++1
$\$1+2\$$	1+2	1+2	1+2
$\$1+ 2\$$	1+2	1+2	1+2
$\$1 +2\$$	1+2	1+2	1+2
$\$1 + 2\$$	1+2	1+2	1+2
$\$1++2\$$	1++2	1++2	1++2
$\$x+1\$$	$x+1$	$x+1$	$x+1$
$\$1+x\$$	$1+x$	$1+x$	$1+x$
$\$x+y\$$	$x+y$	$x+y$	$x+y$
letter ‘e’			
$\$1e1234\$$	1e1234	1e1,234	1e1,234
$\$1e+1234\$$	1e+1234	1e+1,234	1e+1,234
$\$1e.\$$	1e.	1e.	1e.
$\$1e,\$$	1e,	1e,	1e,
$\$1e.1234\$$	1e.1234	1e.1234	1e.1234
$\$1e,1234\$$	1e,1234	1e,1234	1e,1234
$\$1e++1234\$$	1e++1234	1e++1,234	1e++1,234
$\$1e 1,234\$$	1e1,234	1e1,234	1e1,234
$\$1e +1234\$$	1e+1234	1e+1,234	1e+1,234
$\$1 e1,234\$$	1e1,234	1e1,234	1e1,234
mixed numbers			
$\$1.234,890\$$	1.234,890	1.234,890	1.234,890
$\$1,234.890\$$	1,234.890	1,234.890	1,234.890
$\$1234e5678\$$	1234e5678	1,234e5,678	1,234e5,678
$\$+1234e5678\$$	+1234e5678	+1,234e5,678	+1,234e5,678
$\$1234e+5678\$$	1234e+5678	1,234e+5,678	1,234e+5,678
$\$1.234e5.678\$$	1.234e5.678	1.234e5.678	1.234e5.678
$\$1,234e5,678\$$	1,234e5,678	1,234e5,678	1,234e5,678
single characters			
$\$\sqrt{1}\$$	$\sqrt{1}$	$\sqrt{1}$	$\sqrt{1}$
$\$\sqrt{1234}\$$	$\sqrt{1234}$	$\sqrt{1},234$	$\sqrt{1},234$
$\$\sqrt{+}\$$	$\sqrt{+}$	$\sqrt{+}$	$\sqrt{+}$
$\$\sqrt{++}\$$	$\sqrt{++}$	$\sqrt{++}$	$\sqrt{++}$
$\$\sqrt{+1234}\$$	$\sqrt{+1234}$	$\sqrt{+1},234$	$\sqrt{+1},234$
$\$1e\sqrt{+1234}\$$	$1e\sqrt{+1234}$	$1e\sqrt{+1},234$	$1e\sqrt{+1},234$
$\$1\sqrt{+1234e0}\$$	$1\sqrt{+1234e0}$	$1\sqrt{+1},234e0$	$1\sqrt{+1},234e0$

Options exponent=rmE

This is test output of the `ionumbers` L^AT_EX package. The default L^AT_EX output, the output with `ionumbers` package and the expected output with `ionumbers` package is given for different inputs.

If the package `ionumbers` works correctly, the contents in the ‘`ionumbers`’ columns and the respective contents in the ‘`expected`’ columns must be identical.

input	L ^A T _E X	ionumbers	expected
simple digits			
\$1\$	1	1	1
\$12\$	12	12	12
\$123\$	123	123	123
\$1234\$	1234	1234	1234
\$12345\$	12345	12345	12345
\$123456\$	123456	123456	123456
\$1234567\$	1234567	1234567	1234567
point			
\$.1\$	.1	.1	.1
\$1.\$	1.	1.	1.
\$1.1\$	1.1	1.1	1.1
\$1. 2\$	1.2	1.2	1.2
\$1 .2\$	1.2	1.2	1.2
\$1.23456\$	1.23456	1.23456	1.23456
\$12345.6\$	12345.6	12345.6	12345.6
\$1.23.456\$	1.23.456	1.23.456	1.23.456
\$a.b\$	<i>a.b</i>	<i>a.b</i>	<i>a.b</i>
\$a.1\$	<i>a.1</i>	<i>a.1</i>	<i>a.1</i>
\$1.a\$	<i>1.a</i>	<i>1.a</i>	<i>1.a</i>
comma			
\$,1\$	,1	,1	,1
\$1,\$	1,	1,	1,
\$1,1\$	1,1	1,1	1,1
\$1, 2\$	1,2	1,2	1,2
\$1 ,2\$	1,2	1,2	1,2
\$1,23456\$	1,23456	1,23456	1,23456
\$12345,6\$	12345,6	12345,6	12345,6
\$1,23,456\$	1,23,456	1,23,456	1,23,456
\$a,b\$	<i>a,b</i>	<i>a,b</i>	<i>a,b</i>
\$a,1\$	<i>a,1</i>	<i>a,1</i>	<i>a,1</i>
\$1,a\$	<i>1,a</i>	<i>1,a</i>	<i>1,a</i>

input	L ^A T _E X	ionumbers	expected
plus and minus			
$\$+1\$$	+1	+1	+1
$\$-1\$$	-1	-1	-1
$\$++1\$$	+ + 1	+ + 1	+ + 1
$\$+ +1\$$	+ + 1	+ + 1	+ + 1
$\$+ + 1\$$	+ + 1	+ + 1	+ + 1
$\$1+2\$$	1 + 2	1 + 2	1 + 2
$\$1+ 2\$$	1 + 2	1 + 2	1 + 2
$\$1 +2\$$	1 + 2	1 + 2	1 + 2
$\$1 + 2\$$	1 + 2	1 + 2	1 + 2
$\$1++2\$$	1 + +2	1 + +2	1 + +2
$\$x+1\$$	$x + 1$	$x + 1$	$x + 1$
$\$1+x\$$	$1 + x$	$1 + x$	$1 + x$
$\$x+y\$$	$x + y$	$x + y$	$x + y$
letter 'e'			
$\$1e1234\$$	1e1234	1E1234	1E1234
$\$1e+1234\$$	1e + 1234	1E+1234	1E+1234
$\$1e.\$$	1e.	1E.	1E.
$\$1e,\$$	1e,	1E,	1E,
$\$1e.1234\$$	1e.1234	1E.1234	1E.1234
$\$1e,1234\$$	1e,1234	1E,1234	1E,1234
$\$1e++1234\$$	1e + +1234	1E+ + 1234	1E+ + 1234
$\$1e 1234\$$	1e1234	1E1234	1E1234
$\$1e +1234\$$	1e + 1234	1E+1234	1E+1234
$\$1 e1234\$$	1e1234	1e1234	1e1234
mixed numbers			
$\$1.234,890\$$	1.234,890	1.234,890	1.234,890
$\$1,234.890\$$	1,234.890	1,234.890	1,234.890
$\$1234e5678\$$	1234e5678	1234E5678	1234E5678
$\$+1234e5678\$$	+1234e5678	+1234E5678	+1234E5678
$\$1234e+5678\$$	1234e + 5678	1234E+5678	1234E+5678
$\$1.234e5.678\$$	1.234e5.678	1.234E5.678	1.234E5.678
$\$1,234e5,678\$$	1,234e5,678	1,234E5,678	1,234E5,678
single characters			
$\$\sqrt{1}\$$	$\sqrt{1}$	$\sqrt{1}$	$\sqrt{1}$
$\$\sqrt{1234}\$$	$\sqrt{1234}$	$\sqrt{1234}$	$\sqrt{1234}$
$\$\sqrt{+}\$$	$\sqrt{+}$	$\sqrt{+}$	$\sqrt{+}$
$\$\sqrt{++}\$$	$\sqrt{++}$	$\sqrt{++}$	$\sqrt{++}$
$\$\sqrt{+1234}\$$	$\sqrt{+1234}$	$\sqrt{+1234}$	$\sqrt{+1234}$
$\$fails\$$	fails	fails	fails
$\$1\sqrt{+1234e0}\$$	$1\sqrt{+1234e0}$	$1\sqrt{+1234E0}$	$1\sqrt{+1234E0}$

Options exponent=timestento

This is test output of the ionumbers \LaTeX package. The default \LaTeX output, the output with ionumbers package and the expected output with ionumbers package is given for different inputs.

If the package ionumbers works correctly, the contents in the ‘ionumbers’ columns and the respective contents in the ‘expected’ columns must be identical.

input	\LaTeX	ionumbers	expected
simple digits			
\$1\$	1	1	1
\$12\$	12	12	12
\$123\$	123	123	123
\$1234\$	1234	1234	1234
\$12345\$	12345	12345	12345
\$123456\$	123456	123456	123456
\$1234567\$	1234567	1234567	1234567
point			
\$.1\$	.1	.1	.1
\$1.\$	1.	1.	1.
\$1.1\$	1.1	1.1	1.1
\$1. 2\$	1.2	1.2	1.2
\$1 .2\$	1.2	1.2	1.2
\$1.23456\$	1.23456	1.23456	1.23456
\$12345.6\$	12345.6	12345.6	12345.6
\$1.23.456\$	1.23.456	1.23.456	1.23.456
\$a.b\$	<i>a.b</i>	<i>a.b</i>	<i>a.b</i>
\$a.1\$	<i>a.1</i>	<i>a.1</i>	<i>a.1</i>
\$1.a\$	<i>1.a</i>	<i>1.a</i>	<i>1.a</i>
comma			
\$,1\$	,1	,1	,1
\$1,\$	1,	1,	1,
\$1,1\$	1,1	1,1	1,1
\$1, 2\$	1,2	1,2	1,2
\$1 ,2\$	1,2	1,2	1,2
\$1,23456\$	1,23456	1,23456	1,23456
\$12345,6\$	12345,6	12345,6	12345,6
\$1,23,456\$	1,23,456	1,23,456	1,23,456
\$a,b\$	<i>a,b</i>	<i>a,b</i>	<i>a,b</i>
\$a,1\$	<i>a,1</i>	<i>a,1</i>	<i>a,1</i>
\$1,a\$	<i>1,a</i>	<i>1,a</i>	<i>1,a</i>

input	L ^A T _E X	ionumbers	expected
plus and minus			
\$+1\$	+1	+1	+1
\$-1\$	-1	-1	-1
\$++1\$	++1	++1	++1
\$+ +1\$	++1	++1	++1
\$+ + 1\$	++1	++1	++1
\$1+2\$	1+2	1+2	1+2
\$1+ 2\$	1+2	1+2	1+2
\$1 +2\$	1+2	1+2	1+2
\$1 + 2\$	1+2	1+2	1+2
\$1++2\$	1++2	1++2	1++2
\$x+1\$	x+1	x+1	x+1
\$1+x\$	1+x	1+x	1+x
\$x+y\$	x+y	x+y	x+y
letter 'e'			
\$1e1234\$	1e1234	1×10^{1234}	1×10^{1234}
\$1e+1234\$	1e+1234	$1 \times 10^{+1234}$	$1 \times 10^{+1234}$
\$1e.\$	1e.	$1 \times 10.$	$1 \times 10.$
\$1e,\$	1e,	$1 \times 10,$	$1 \times 10,$
\$1e.1234\$	1e.1234	$1 \times 10.^{1234}$	$1 \times 10.^{1234}$
\$1e,1234\$	1e,1234	$1 \times 10^{,1234}$	$1 \times 10^{,1234}$
\$1e++1234\$	1e++1234	$1 \times 10^{++1234}$	$1 \times 10^{++1234}$
\$1e 1234\$	1e1234	1×10^{1234}	1×10^{1234}
\$1e +1234\$	1e+1234	$1 \times 10^{+1234}$	$1 \times 10^{+1234}$
\$1 e1234\$	1e1234	1e1234	1e1234
mixed numbers			
\$1.234,890\$	1.234,890	1.234,890	1.234,890
\$1,234.890\$	1,234.890	1,234.890	1,234.890
\$1234e5678\$	1234e5678	1234×10^{5678}	1234×10^{5678}
\$+1234e5678\$	+1234e5678	$+1234 \times 10^{5678}$	$+1234 \times 10^{5678}$
\$1234e+5678\$	1234e+5678	$1234 \times 10^{+5678}$	$1234 \times 10^{+5678}$
\$1.234e5.678\$	1.234e5.678	$1.234 \times 10^{5.678}$	$1.234 \times 10^{5.678}$
\$1,234e5,678\$	1,234e5,678	$1,234 \times 10^{5,678}$	$1,234 \times 10^{5,678}$
single characters			
\$\sqrt{1}\$	$\sqrt{1}$	$\sqrt{1}$	$\sqrt{1}$
\$\sqrt{1234}\$	$\sqrt{1234}$	$\sqrt{1234}$	$\sqrt{1234}$
\$\sqrt{+}\$	$\sqrt{+}$	$\sqrt{+}$	$\sqrt{+}$
\$\sqrt{++}\$	$\sqrt{++}$	$\sqrt{++}$	$\sqrt{++}$
\$\sqrt{+1234}\$	$\sqrt{+1234}$	$\sqrt{+1234}$	$\sqrt{+1234}$
\$fails\$	fails	fails	fails
\$1\sqrt{+1234e0}\$	$1\sqrt{+1234e0}$	$1\sqrt{+1234} \times 10^0$	$1\sqrt{+1234} \times 10^0$

Options comma=decimal,point=thousands

This is test output of the ionumbers \LaTeX package. The default \LaTeX output, the output with ionumbers package and the expected output with ionumbers package is given for different inputs.

If the package ionumbers works correctly, the contents in the ‘ionumbers’ columns and the respective contents in the ‘expected’ columns must be identical.

input	\LaTeX	ionumbers	expected
simple digits			
\$1\$	1	1	1
\$12\$	12	12	12
\$123\$	123	123	123
\$1234\$	1234	1234	1234
\$12345\$	12345	12345	12345
\$123456\$	123456	123456	123456
\$1234567\$	1234567	1234567	1234567
point			
\$.1\$	.1	,1	,1
\$1.\$	1.	1.	1.
\$1.1\$	1.1	1,1	1,1
\$1. 2\$	1.2	1.2	1.2
\$1 .2\$	1.2	1,2	1,2
\$1.23456\$	1.23456	1,23456	1,23456
\$12345.6\$	12345.6	12345,6	12345,6
\$1.23.456\$	1.23.456	1,23,456	1,23,456
\$a.b\$	<i>a.b</i>	<i>a,b</i>	<i>a,b</i>
\$a.1\$	<i>a.1</i>	<i>a,1</i>	<i>a,1</i>
\$1.a\$	<i>1.a</i>	<i>1,a</i>	<i>1,a</i>
comma			
\$,1\$	,1	.1	.1
\$1,\$	1,	1,	1,
\$1,1\$	1,1	1.1	1.1
\$1, 2\$	1,2	1,2	1,2
\$1 ,2\$	1,2	1.2	1.2
\$1,23456\$	1,23456	1.23456	1.23456
\$12345,6\$	12345,6	12345.6	12345.6
\$1,23,456\$	1,23,456	1.23.456	1.23.456
\$a,b\$	<i>a,b</i>	<i>a,b</i>	<i>a,b</i>
\$a,1\$	<i>a,1</i>	<i>a.1</i>	<i>a.1</i>
\$1,a\$	<i>1,a</i>	<i>1,a</i>	<i>1,a</i>

input	L ^A T _E X	ionumbers	expected
plus and minus			
$\$+1\$$	+1	+1	+1
$\$-1\$$	-1	-1	-1
$\$++1\$$	+ + 1	+ + 1	+ + 1
$\$+ +1\$$	+ + 1	+ + 1	+ + 1
$\$+ + 1\$$	+ + 1	+ + 1	+ + 1
$\$1+2\$$	1 + 2	1 + 2	1 + 2
$\$1+ 2\$$	1 + 2	1 + 2	1 + 2
$\$1 +2\$$	1 + 2	1 + 2	1 + 2
$\$1 + 2\$$	1 + 2	1 + 2	1 + 2
$\$1++2\$$	1 + + 2	1 + + 2	1 + + 2
$\$x+1\$$	$x + 1$	$x + 1$	$x + 1$
$\$1+x\$$	$1 + x$	$1 + x$	$1 + x$
$\$x+y\$$	$x + y$	$x + y$	$x + y$
letter 'e'			
$\$1e1234\$$	1e1234	1e1234	1e1234
$\$1e+1234\$$	1e + 1234	1e + 1234	1e + 1234
$\$1e.\$$	1e.	1e.	1e.
$\$1e,\$$	1e,	1e,	1e,
$\$1e.1234\$$	1e.1234	1e, 1234	1e, 1234
$\$1e,1234\$$	1e, 1234	1e.1234	1e.1234
$\$1e++1234\$$	1e + + 1234	1e + + 1234	1e + + 1234
$\$1e 1234\$$	1e1234	1e1234	1e1234
$\$1e +1234\$$	1e + 1234	1e + 1234	1e + 1234
$\$1 e1234\$$	1e1234	1e1234	1e1234
mixed numbers			
$\$1.234,890\$$	1.234, 890	1, 234.890	1, 234.890
$\$1,234.890\$$	1, 234.890	1.234, 890	1.234, 890
$\$1234e5678\$$	1234e5678	1234e5678	1234e5678
$\$+1234e5678\$$	+1234e5678	+1234e5678	+1234e5678
$\$1234e+5678\$$	1234e + 5678	1234e + 5678	1234e + 5678
$\$1.234e5.678\$$	1.234e5.678	1, 234e5, 678	1, 234e5, 678
$\$1,234e5,678\$$	1, 234e5, 678	1.234e5.678	1.234e5.678
single characters			
$\$\sqrt{1}\$$	$\sqrt{1}$	$\sqrt{1}$	$\sqrt{1}$
$\$\sqrt{1234}\$$	$\sqrt{1234}$	$\sqrt{1234}$	$\sqrt{1234}$
$\$\sqrt{+}\$$	$\sqrt{+}$	$\sqrt{+}$	$\sqrt{+}$
$\$\sqrt{++}\$$	$\sqrt{++}$	$\sqrt{++}$	$\sqrt{++}$
$\$\sqrt{+1234}\$$	$\sqrt{+1234}$	$\sqrt{+1234}$	$\sqrt{+1234}$
$\$1e\sqrt{+1234}\$$	$1e\sqrt{+1234}$	$1e\sqrt{+1234}$	$1e\sqrt{+1234}$
$\$1\sqrt{+1234e0}\$$	$1\sqrt{+1234e0}$	$1\sqrt{+1234e0}$	$1\sqrt{+1234e0}$