

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	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			
$\$\sqrt{1}\$$	$\sqrt{1}$	$\sqrt{1}$	$\sqrt{1}$
$\$\sqrt{1234}\$$	$\sqrt{1234}$	$\sqrt{1234}$	$\sqrt{1234}$
$\$\sqrt{+}\$$	$\sqrt{+}$	$\sqrt{+}$	$\sqrt{+}$
$\$\sqrt{++}\$$	$\sqrt{++}$	$\sqrt{++}$	$\sqrt{++}$
$\$\sqrt{+1234}\$$	$\sqrt{+1234}$	$\sqrt{+1234}$	$\sqrt{+1234}$
$\$1e\sqrt{+1234}\$$	$1e\sqrt{+1234}$	$1e\sqrt{+1234}$	$1e\sqrt{+1234}$
$\$1\sqrt{+1234}e0\$$	$1\sqrt{+1234}e0$	$1\sqrt{+1234}e0$	$1\sqrt{+1234}e0$

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

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	<code>ionumbers</code>	expected
simple digits			
<code>\$1\$</code>	1	1	1
<code>\$12\$</code>	12	12	12
<code>\$123\$</code>	123	123	123
<code>\$1234\$</code>	1234	1,234	1,234
<code>\$12345\$</code>	12345	12,345	12,345
<code>\$123456\$</code>	123456	123,456	123,456
<code>\$1234567\$</code>	1234567	1,234,567	1,234,567
point			
<code>\$.1\$</code>	.1	.1	.1
<code>\$1.\$</code>	1.	1.	1.
<code>\$1.1\$</code>	1.1	1.1	1.1
<code>\$1. 2\$</code>	1.2	1.2	1.2
<code>\$1 .2\$</code>	1.2	1.2	1.2
<code>\$1.23456\$</code>	1.23456	1.23456	1.23456
<code>\$12345.6\$</code>	12345.6	12,345.6	12,345.6
<code>\$1.23.456\$</code>	1.23.456	1.23.456	1.23.456
<code>\$a.b\$</code>	<i>a.b</i>	<i>a.b</i>	<i>a.b</i>
<code>\$a.1\$</code>	<i>a.1</i>	<i>a.1</i>	<i>a.1</i>
<code>\$1.a\$</code>	<i>1.a</i>	<i>1.a</i>	<i>1.a</i>
comma			
<code>\$,1\$</code>	,1	,1	,1
<code>\$1,\$</code>	1,	1,	1,
<code>\$1,1\$</code>	1,1	1,1	1,1
<code>\$1, 2\$</code>	1,2	1,2	1,2
<code>\$1 ,2\$</code>	1,2	1,2	1,2
<code>\$1,23456\$</code>	1,23456	1,23456	1,23456
<code>\$12345,6\$</code>	12345,6	12345,6	12345,6
<code>\$1,23,456\$</code>	1,23,456	1,23,456	1,23,456
<code>\$a,b\$</code>	<i>a,b</i>	<i>a,b</i>	<i>a,b</i>
<code>\$a,1\$</code>	<i>a,1</i>	<i>a,1</i>	<i>a,1</i>
<code>\$1,a\$</code>	<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.123 4	1e.123 4
\$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` 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	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			
$\$\sqrt{1}\$$	$\sqrt{1}$	$\sqrt{1}$	$\sqrt{1}$
$\$\sqrt{1234}\$$	$\sqrt{1234}$	$\sqrt{1234}$	$\sqrt{1234}$
$\$\sqrt{+}\$$	$\sqrt{+}$	$\sqrt{+}$	$\sqrt{+}$
$\$\sqrt{++}\$$	$\sqrt{++}$	$\sqrt{++}$	$\sqrt{++}$
$\$\sqrt{+1234}\$$	$\sqrt{+1234}$	$\sqrt{+1234}$	$\sqrt{+1234}$
$\$1e\sqrt{+1234}\$$	$1e\sqrt{+1234}$	$1e\sqrt{+1234}$	$1e\sqrt{+1234}$
$\$1\sqrt{+1234}e0\$$	$1\sqrt{+1234}e0$	$1\sqrt{+1234}e0$	$1\sqrt{+1234}e0$