```
INVALID test cases
//binary operator preceded by binary operator
1++2
//binary operator preceded by unary operator
cos*4
//unary operator preceded by closing brace
)sin4
//unary operator preceded by a number
5sin4
//unary operator followed by a unary operator
costan6
//unary operator followed by a binary operator
sin+6
//Invalid operator
6&7
//Unary operator spelled wrong
sen4
//Unary operator followed by a period
cos.5
//Unary operator followed by random character
cosy
//Binary operator followed by nothing
//Binary operator at the beginning of the expression
//Open parenthesis at the end of the expression
1+1(
//Unary operator cannot be followed by a binary operator
1+-+2
//Division by 0
4/0
//Random characters for operands
```

```
a+b
//Number ending with a period
2.+3
//Number with multiple periods
1.2.2.2
//Number beginning with a period
1+.2
//Logarithm of 0
log0
//In of negative numbers
In-2
//Double overflow
100000000000^1000000
//Number that is too many significant digits for double to handle precisely
// Opening and closing brackets don't match
(1+2)
// Open bracket is immediately followed by a closing bracket
()
VALID test cases
//Unary operator preceded by a binary operator
5+sin4
//Unary operator followed by parenthesis
\cos(4+2)
//unary operator at the beginning of an expression
tan0.5
//Expression with parentheses
(1+2)*3
//Expression with brackets
```

```
{1+2}*3
//Multiple operators with different precedence
1+2*3^2 (result should be 19)
//Expression begins with unary minus
//Unary minus before parenthesis
-(1+1)
//Unary minus before unary operator
//Binary operator followed by unary minus
//Parenthesis and Curly braces
(1+2)*{5-3}
//Number with over 6 digits after the decimal should print correctly
1.123456789123
//Spaces and tabs should be ignored
1
//Nested braces
1+(2+{5*3})
//Order of operations with unary minus
5^-3
//Order of operations with unary minus
-sin0.5
//Long combination of operations (answer should be -7.55
-5.78+-(4-2.23)+\sin(0)\cos(1)/(1+\tan(2^{1}(-3+2^{1}(1.23+99.111))))
```