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
1+

//Binary operator at the beginning of the expression
+1

//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

//ln of negative numbers
ln-2

//Double overflow
100000000000^1000000

//Number that is too many significant digits for double to handle precisely
100000000000000000000

// 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
-5

//Unary minus before parenthesis
-(1+1)

//Unary minus before unary operator
-sin5

//Binary operator followed by unary minus
1+-2

//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 + 2

//Nested braces
1+(2+{5*3})

//Order of operations with unary minus
5^-3

//Order of operations with unary minus
-sin0.5