

****string needs to be in quotes****

Test Case 1: Nothing

input:

expected output:

actual output:

error: needs one string argumentmac:desktop

Test Case 2: String

input: Hello my name is Larry

expected output:

word: Hello

word: my

word: name

word: is

word: Larry

actual output:

word "hello"

word "my"

word "name"

word "is"

word "Larry"

Test Case 3: Comma

input: Hi, I am you're neighbor

expected output:

word: Hi

comma: ,

word: I

word: am

word: you're

word: neighbor

actual output:

word "Hi"

comma ", "

word "I"

word "am"

word "you"

single quote ""

word "re"

word "neighbor"

Test Case 4 Period**input:** Mr. Krabbs is a crab**expected output:**

word: Mr

period: .

word: Krabbs

word: is

word: a

word: crab

actual output:

word "Mr"

period "."

word "Krabbs"

word "is"

word "a"

word "crab"

Test Case 5: Exclamation Point/Negate**input:** Salutations! ! 5**expected output:**

word: Salutations

exclamation point: !

exclamation point: !

int: 5

actual output:

word: Salutations

exclamation point: !

exclamation point: !

int: 5

Test Case 6: Colon**input:** Food: Burgers and fries.**expected output:**

word: Food

colon: :

word: Burgers

word: and

word: fries

period: .
actual output:
word "Food"
unknown character ":"
word "Burgers"
word "and"
word "fries"
period "."

Test Case 7: Semicolon

input: store; too!
expected output:
word: store
semicolon: ;
word: too
exclamation point: !
actual output:
word: store
semicolon: ;
word: too
exclamation point: !

Test Case 8: Question Mark

input: Why?
expected output:
word: Why
question mark: ?
actual output:
word "Why"
unknown character "?"

Test Case 9: Integer

input: I am 21 yrs. old.
expected output:
word: I
word: am
integer: 21
word: yrs
period: .
word: old
period: .

actual output:

word "I"
word "am"
decimal integer "21"
word "yrs"
period "."
word "old"
period "."

Test Case 10: Float

input: pi is: 3.14159

expected output:

word: pi
word: is
colon: :
decimal: 3.14159

actual output:

word "pi"
word "is"
unknown character ":"
float "3.14159"

Test Case 11: Octal Number

input: h

expected output: h

actual output:

Test Case 12: Hex Number

input: 0X234ab, 0x452bC, ox7834ab, 0x3456gh

expected output:

hex number: 0X234ab
comma: ,
hex number: 0x452bC
comma: ,
word: ox
integer: 7834
word: ab
comma: ,
hex number: 0x3456
word: gh

actual output:

hex integer "0X234ab"
comma ","
hex integer "0x452bC"
comma ","
word "ox7834ab"
comma ","
hex integer "0x3456"
word "gh"

Test Case 13: Backslash

input: it is \ me

expected output: word: it

word: is
backslach: \
word: me

actual output:

word "it"
word "is"
backslash "\"
word "me"

Test Case 14: Plus

input: 1 + 2.34 ++ 6 += 0 =+ 1

expected output: integer: 1

addition symbol: +
float: 2.34
increment: ++
int: 6
plus/equals: +=
int: 0
equals: =
addition symbol: +
int: 1

actual output:

decimal integer "1"
plus "+"
float "2.34"
increment "++"
decimal integer "6"
plus equal "+="
decimal integer "0"
equals "="

plus "+"
decimal integer "1"

Test Case 15: Minus

input: 4.56 - 2.3 -- 6 =- 1

expected output: float: 4.56

subtraction symbol: -

float: 2.3

decrement: --

int: 6

equals: =

subtraction symbol: -

int: 1

actual output:

float "4.56"

minus "-"

float "2.3"

decrement "--"

decimal integer "6"

equals "="

minus "-"

decimal integer "1"

Test Case 16: Divide

input: 5 / 67 /= 21 =/ 0

expected output: integer: 5

division symbol: /

integer: 67

divide/equals: /=

int: 21

equals: =

divide: /

int: 0

actual output:

decimal integer "5"

divide "/"

decimal integer "67"

divide equal "/="

decimal integer "21"

equals "="

divide "/"

decimal integer "0"

Test Case 17: Multiplication**input:** 65 * 90.6 *= 21 =* 0**expected output:**

integer: 65

multiplication symbol: *

float: 90.6

multiplication/equals: *=

int: 21

equals: =

multiplication: *

int: 0

actual output:

decimal integer "65"

multiply or pointer "*"

float "90.6"

multiply equal "*="

decimal integer "21"

equals "="

multiply or pointer "*"

decimal integer "0"

Test Case 18: Left Parenthesis**input:** if (not**expected output:**

word: if

left parenthesis: (

word: not

actual output:**Test Case 19: Right Parenthesis****input:** if) or**expected output:** word: if

right parenthesis:)

word: or

actual output:

if keyword "if"

left parenthesis "("

word "not"

Test Case 19: Cast / Function

input: (hello))(() helloworld()

expected output:

cast: (hello)

right parenthesis:)

left parenthesis: (

cast: ()

function: helloworld()

actual output:

cast: (hello)

right parenthesis:)

left parenthesis: (

cast: ()

function: helloworld()

Test Case 20: Left Bracket

input: [[,low

expected output:

left bracket: [

left bracket: [

comma: ,

word: low

actual output:

left brace "["

left brace "["

comma ", "

word "low"

Test Case 21: Right Bracket

input: it's me]]],

expected output:

word: it's

word: me

right bracket:]

right bracket:]

right bracket:]

comma: ,

actual output:

word "it"

single quote ""

word "s"

word "me"

right brace "]"
right brace "]"
right brace "]"
comma ","

Test Case 20: Array Element

input: [a] [] []

expected output:

array element: [a]

array element: []

right bracket:]

left bracket: [

actual output:

array element: [a]

array element: []

right bracket:]

left bracket: [

Test Case 22: Left Curly Brace

input: {/ {

expected output:

left curly brace: {

division symbol: /

division symbol: /

left curly brace: {

actual output:

left bracket "{"

comment line "/"

left bracket "{"

Test Case 23: Right Curly Brace

input: } * }

expected output:

right curly brace: }

multiplication symbol: *

right curly brace: }

actual output:

right bracket "}"

multiply or pointer "*"

right bracket "}"

Test Case 24: Double Backslash**input:** \\, **expected output:**

double backslash: \\

backslash: \

comma: ,

double backslash: \\

actual output:

backslash "\"

backslash "\"

comma ","

backslash "\"

Test Case 25: Underscore**input:** 1_hello**expected output:**

integer: 1

underscore: _

word: hello

actual output:

decimal integer "1"

underscore " _"

word "hello"

Test Case 26: Dollar Sign**input:** \$4.00**expected output:**

dollar sign: \$

decimal: 4.00

actual output:

dollar sign: \$

decimal: 4.00

Test Case 27: Hashtag**input:** #famous**expected output:**

hashtag: #

word: famous

actual output:

hashtag "#"

word "famous"

Test Case 28: "@"**input:** @ me

expected output:

at symbol: @

word: me

actual output:

at sign "@"

word "me"

Test Case 29: Apostrophe

input: ' taking dubs ' it's

expected output:

apostrophe: '

word: taking

word: dubs

apostrophe: '

word: it's

actual output:

single quote ""

word "taking"

word "dubs"

single quote ""

word "it"

single quote ""

word "s"

Test Case 30: Less Than

input: 1 < 3 ; <= 1 =< 0

expected output:

integer: 1

less than symbol: <

integer: 3

semicolon: ;

less than/equal to: 1

equals: =

less than: <

int: 0

actual output:

decimal integer "1"

less than "<"

decimal integer "3"

unknown character " ;"

less than or equal "<="

decimal integer "1"

equals "="

less than "<"
decimal integer "0"

Test Case 31: Greater Than

input: 9> 7! >= 0 => 7

expected output:

integer: 9

greater than symbol: >

integer: 7

exclamation point: !

greater than/equal to: >=

int: 0

equals: =

greater than: >

int: 7

actual output:

decimal integer "9"

greater than ">"

decimal integer "7"

not "!"

greater than or equal ">="

decimal integer "0"

equals "="

greater than ">"

decimal integer "7"

Test Case 32: Equals

input: 1 = 2 == != 8 =!

expected output:

integer: 1

equals symbol: =

integer: 2

equals symbol: =

equals symbol: =

not equals: !=

int: 8

equals: =

exclamation point: !

actual output:

integer: 1

equals symbol: =

integer: 2

equals symbol: =

equals symbol: =
not equals: !=
int: 8
equals: =
exclamation point: !

Test Case 33: And / Logical And

input: &u & && f& &= =&

expected output:

address: &u
and: &
logical and: &&
word: f
and:&
and/equals: &=
equals: =
and: &

actual output:

bitwise and "&"
word "u"
bitwise and "&"
logical and "&&"
word "f"
bitwise and "&"
bitwise and "&"
equals "="
equals "="
bitwise and "&"

Test Case 34: Or / Logical Or

input: l ghu8 ll l= =l

expected output:

or: l
word: ghu
int: 8
logical or: ll
or/equals: l=
equals: =
or: l

actual output:

bitwise or "l"
word "ghu8"
logical or "ll"
bitwise or "l"

equals "="
equals "="
bitwise or "|"

Test Case 35: Bitwise Exclusive Or

input: ^ x^5 ^= 0 ^=

expected output: bitwise exclusive or: ^

power: x^5

exclusive or equals: ^=

int: 0

equals: =

bitwise exclusive or: ^

actual output:

bitwise exclusive or "^"

word "x"

bitwise exclusive or "^"

decimal integer "5"

bitwise exclusive or "^"

equals "="

decimal integer "0"

equals "="

bitwise exclusive or "^"

Test Case 33: "Other Symbols ~, ` , | "

input: ',. `~\|

expected output: apostrophe: '

comma: ,

period: .

other symbol: `

other symbol: ~

other symbol: |

actual output: