CSE 4321 Project

Test Cases

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# Test Paths

main

Test Path 1: [Start, 1, 2, 6, 7, 8, 9, 10, 8, End]

Test Path 2: [Start, 1, 3, 4, 6, 7, 8, End]

Test Path 3: [Start, 1, 3, 5, End]

## open\_character\_stream

Test Path 1: [Start, 1, 2, End]

Test Path 2: [Start, 1, 3, End]

## open\_token\_stream

Test Path 1: [Start, 1, 2, 4, End]

Test Path 2: [Start, 1, 3, 4, End]

## get\_token

Test Path 1: [Start, 1, 2, End]

Test Path 2: [Start, 1, 3, 4, 5, 4, 6, 7, End]

Test Path 3: [Start, 1, 3, 4, 6, 8, 9, End]

Test Path 4: [Start, 1, 3, 4, 6, 8, 10, 11, 12, 13, 14, 15, End]

Test Path 5: [Start, 1, 3, 4, 6, 8, 10, 12, 14, 16, 17, 18, 19, 17, 20, 21, End]

Test Path 6: [Start, 1, 3, 4, 6, 8, 10, 12, 14, 16, 17, 20, 22, 23, End]

Test Path 7: [Start, 1, 3, 4, 6, 8, 10, 12, 14, 16, 17, 20, 22, 24, 25, End]

Test Path 8: [Start, 1, 3, 4, 6, 8, 10, 12, 14, 16, 17, 20, 22, 24, 26, 27, End]

Test Path 9: [Start, 1 ,3, 4, 6, 8, 10, 12, 14, 16, 17, 20, 22, 24, 26, 28, End]

## is\_token\_end

Test Path 1: [Start, 1, 2, End]

Test Path 2: [Start, 1, 3, 4, 6, End]

Test Path 3: [Start, 1, 3, 4, 5, End]

Test Path 4: [Start, 1, 3, 7, 8, 9, End]

Test Path 5: [Start, 1, 3, 7, 8, 10, End]

Test Path 6: [Start, 1, 3, 7, 11, 12, End]

Test Path 7: [Start, 1, 3, 7, 11, 13, 14, End]

Test Path 8: [Start, 1, 3, 7, 11, 13, 15, End]

## token\_type

Test Path 1: [Start, 1, 2, End]

Test Path 2: [Start, 1, 3, 4, End]

Test Path 3: [Start, 1, 3, 5, 6, End]

Test Path 4: [Start, 1, 3, 5, 7, 8, End]

Test Path 5: [Start, 1, 3, 5, 7, 9, 10, End]

Test Path 6: [Start, 1, 3, 5, 7, 9, 11, 12, End]

Test Path 7: [Start, 1, 3, 5, 7, 9, 11, 13, 14, End]

Test Path 8: [Start, 1, 3, 5, 7, 9, 11, 13, 15, End]

## print\_token

Test Path 1: [Start, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, End]

Test Path 3: [Start, 1, 3, 5, 7, 9, 11, End]

## is\_comment

Test Path 1: [Start, 1, 2, End]

Test Path 2: [Start, 1, 3, End]

## is\_keyword

Test Path 1: [Start, 1, 2, End]

Test Path 2: [Start, 1, 3, End]

## is\_char\_constant

Test Path 1: [Start, 1, 2, End]

Test Path 2: [Start, 1, 3, End]

## is\_num\_constant

Test Path 1: [Start, 1, 2, 8, End]

Test Path 2: [Start, 1, 2, 3, 4, 6, End]

Test Path 3: [Start, 1, 2, 3, 4, 5, 3, 7, End]

## is\_str\_constant

Test Path 1: [Start, 1, 2, 8, End]

Test Path 2: [Start, 1, 2, 3, 4, 5, End]

Test Path 3: [Start, 1, 2, 3, 4, 6, 3, 7, End]

## is\_identifier

Test Path 1: [Start, 1, 2, 8, End]

Test Path 2: [Start, 1, 2, 3, 4, 6, End]

Test Path 3: [Start, 1, 2, 3, 4, 5, 3, 7, End]

## print\_spec\_symbol

Test Path 1: [Start, 1, 2, End]

Test Path 2: [Start, 1, 3, 4, End]

Test Path 3: [Start, 1, 3, 5, 6, End]

Test Path 4: [Start, 1, 3, 5, 7, 8, End]

Test Path 5: [Start, 1, 3, 5, 7, 9, 10, End]

Test Path 6: [Start, 1, 3, 5, 7, 9, 11, 12, End]

Test Path 7: [Start, 1, 3, 5, 7, 9, 11, End]

## is\_spec\_symbol

Test Path 1: [Start, 1, 2, End]

Test Path 2: [Start, 1, 3, 4, End]

Test Path 3: [Start, 1, 3, 5, 6, End]

Test Path 4: [Start, 1, 3, 5, 7, 8, End]

Test Path 5: [Start, 1, 3, 5, 7, 9, 10, End]

Test Path 6: [Start, 1, 3, 5, 7, 9, 11, 12, End]

Test Path 7: [Start, 1, 3, 5, 7, 9, 11, 13, 14, End]

Test Path 8: [Start, 1, 3, 5, 7, 9, 11, 13, 14, 15, End]

# Program-Level Testing Paths

## Test Path 1

[main.Start, main.1, main.2, main.6,

open\_token\_stream.Start, open\_token\_stream.1, open\_token\_stream.2, open\_token\_stream.4, open\_token\_stream.End

main.6, main.7,

get\_token.Start, get\_token.1, get\_token.2, get\_token.End,

main.7, main.8, main.9,

print\_token.Start, print\_token.1,

token\_type.Start, , token\_type.1,

is\_keyword.Start, is\_keyword.1, is\_keyword.2, is\_keyword.End,

token\_type.1, token\_type.3,

is\_spec\_symbol.Start, is\_spec\_symbol.1, is\_spec\_symbol.2, is\_spec\_symbol.End

token\_type.3, token\_type.5,

is\_identifier.Start, is\_identifier.1, is\_identifier.2, is\_identifier.8, is\_identifier.End

token\_type.5, token\_type.7,

is\_num\_constant.Start, is\_num\_constant.1, is\_num\_constant.2, is\_num\_constant.8, is\_num\_constant.End

token\_type.7, token\_type.9,

is\_str\_constant.Start, is\_str\_constant.1, is\_str\_constant.2, is\_str\_constant.8, is\_str\_constant.End

token\_type.9, token\_type.11,

is\_char\_constant.Start, is\_char\_constant.1, is\_char\_constant.2, is\_char\_constant.End

token\_type.11, token\_type.13,

is\_comment.Start, is\_comment.1, is\_comment.2, is\_comment.End

token\_type.13, token\_type.15, token\_type.End,

print\_token.1, print\_token.2, print\_token.3, print\_token.4, print\_token.5, print\_token.6,

print\_spec\_symbol.Start, print\_spec\_symbol.1, print\_spec\_symbol.2, print\_spec\_symbol.End

print\_token.6, print\_token.7, print\_token.8, print\_token.9, print\_token.10, print\_token.11, print\_token.12, print\_token.End,

main.9, main.10,

get\_token.Start, get\_token.1, get\_token.3, get\_token.4, get\_token.5,

is\_spec\_symbol.Start, is\_spec\_symbol.1, is\_spec\_symbol.3, is\_spec\_symbol.4, is\_spec\_symbol.End

get\_token.5, get\_token.4, get\_token.6, get\_token.7, get\_token.End,

main.10, main.8, main.9,

print\_token.Start, print\_token.1,

token\_type.Start, token\_type.1,

is\_keyword.Start, is\_keyword.1, is\_keyword.3, is\_keyword.End

token\_type.1, token\_type.3,

is\_spec\_symbol.Start, is\_spec\_symbol.1, is\_spec\_symbol.3, is\_spec\_symbol.5, is\_spec\_symbol.6, is\_spec\_symbol.End

token\_type.3, token\_type.5,

is\_identifier.Start, is\_identifier.1, is\_identifier.2, is\_identifier.3, is\_identifier.4, is\_identifier.6, is\_identifier.End

token\_type.5, token\_type.7,

is\_num\_constant.Start, is\_num\_constant.1, is\_num\_constant.2, is\_num\_constant.3, is\_num\_constant.4, is\_num\_constant.6, is\_num\_constant.End

token\_type.7, token\_type.9,

is\_str\_constant.Start, is\_str\_constant.1, is\_str\_constant.2, is\_str\_constant.3, is\_str\_constant.4, is\_str\_constant.5, is\_str\_constant.End

token\_type.9, token\_type.11,

is\_char\_constant.Start, is\_char\_constant.1, is\_char\_constant.3, is\_char\_constant.End

token\_type.11, token\_type.13,

is\_comment.Start, is\_comment.1, is\_comment.3, is\_comment.End

token\_type.13, token\_type.14, token\_type.End

print\_token.1, print\_token.2, print\_token.3, print\_token.4, print\_token.5, print\_token.6,

print\_spec\_symbol.Start, print\_spec\_symbol.1, print\_spec\_symbol.3, print\_spec\_symbol.4, print\_spec\_symbol.End

print\_token.6, print\_token.7, print\_token.8, print\_token.9, print\_token.10, print\_token.11, print\_token.12, print\_token.End

main.9, main.10,

get\_token.Start, get\_token.1, get\_token.3, get\_token.4, get\_token.6, get\_token.8,

is\_spec\_symbol.Start, is\_spec\_symbol.1, is\_spec\_symbol.3, is\_spec\_symbol.5, is\_spec\_symbol.7, is\_spec\_symbol.8, is\_spec\_symbol.End

get\_token.8, get\_token.10, get\_token.12, get\_token.14, get\_token.16, get\_token.17,

is\_token\_end.Start, is\_token\_end.1, is\_token\_end.2, is\_token\_end.End

get\_token.17, get\_token.20, get\_token.22,

is\_spec\_symbol.Start, is\_spec\_symbol.1, is\_spec\_symbol.3, is\_spec\_symbol.5, is\_spec\_symbol.7, is\_spec\_symbol.9, is\_spec\_symbol.10, is\_spec\_symbol.End

get\_token.22, get\_token.23, get\_token.End

main.10, main.End]

## Test Path 2

[main.Start, main.1, main.3, main.4, main.6, main.7,

get\_token.Start, get\_token.1, get\_token.3, get\_token.4, get\_token.6, get\_token.8,

is\_spec\_symbol.Start, is\_spec\_symbol.1, is\_spec\_symbol.3, is\_spec\_symbol.5, is\_spec\_symbol.7, is\_spec\_symbol.9, is\_spec\_symbol.11, is\_spec\_symbol.12, is\_spec\_symbol.End

get\_token.8, get\_token.9, get\_token.End,

main.7, main.8, main.End]

## Test Path 3

[main.Start, main.1, main.3, main.5, main.End]

## Test Path 4

[main.Start, main.1, main.2, main.6,

open\_token\_stream.Start, open\_token\_stream.1, open\_token\_stream.3, open\_token\_stream.4, open\_token\_stream.End

main.6, main.7,

get\_token.Start, get\_token.1, get\_token.3, get\_token.4, get\_token.6, get\_token.8,

is\_spec\_symbol.Start, is\_spec\_symbol.1, is\_spec\_symbol.3, is\_spec\_symbol.5, is\_spec\_symbol.7, is\_spec\_symbol.9, is\_spec\_symbol.11, is\_spec\_symbol.13, is\_spec\_symbol.14, is\_spec\_symbol.End

get\_token.10, get\_token.11, get\_token.12, get\_token.13, get\_token.14, get\_token.15, get\_token.End,

main.7, main.8, main.9,

print\_token.Start, print\_token.1,

token\_type.Start, token\_type.1,

token\_type.1, token\_type.3,

is\_keyword.Start, is\_keyword.1, is\_keyword.2, is\_keyword.End

token\_type.3, token\_type.5,

is\_spec\_symbol.Start, is\_spec\_symbol.1, is\_spec\_symbol.3, is\_spec\_symbol.5, is\_spec\_symbol.7, is\_spec\_symbol.9, is\_spec\_symbol.11, is\_spec\_symbol.13, is\_spec\_symbol.14, is\_spec\_symbol.15, is\_spec\_symbol.End

token\_type.5, token\_type.7,

is\_identifier.Start, is\_identifier.1, is\_identifier.2, is\_identifier.3, is\_identifier.4, is\_identifier.5, is\_identifier.3, is\_identifier.7, is\_identifier.End

token\_type.7, token\_type.9,

is\_num\_constant.Start, is\_num\_constant.1, is\_num\_constant.2, is\_num\_constant.3, is\_num\_constant.4, is\_num\_constant.5, is\_num\_constant.3, is\_num\_constant.7, is\_num\_constant.End

token\_type.9, token\_type.11,

is\_str\_constant.Start, is\_str\_constant.1, is\_str\_constant.2, is\_str\_constant.3, is\_str\_constant.4, is\_str\_constant.6, is\_str\_constant.3, is\_str\_constant.7, is\_str\_constant.End

token\_type.11, token\_type.12, token\_type.End

print\_token.1, print\_token.3, print\_token.5, print\_token.7, print\_token.9, print\_token.11, print\_token.End,

main.9, main.10,

get\_token.Start, get\_token.1, get\_token.3, get\_token.4, get\_token.6, get\_token.8,

is\_spec\_symbol.Start, is\_spec\_symbol.1, is\_spec\_symbol.2, is\_spec\_symbol.End

get\_token.8, get\_token.10, get\_token.12, get\_token.14, get\_token.16, get\_token.17,

is\_token\_end.Start, is\_token\_end.1, is\_token\_end.3, is\_token\_end.4, is\_token\_end.6, is\_token\_end.End

get\_token.17, get\_token.18, get\_token.19, get\_token.17,

is\_token\_end.Start, is\_token\_end.1, is\_token\_end.3, is\_token\_end.4, is\_token\_end.5, is\_token\_end.End

get\_token.17, get\_token.20, get\_token.21, get\_token.End,

main.10, main.8, main.9,

print\_token.Start, print\_token.1,

print\_token.1, print\_token.2, print\_token.3, print\_token.4, print\_token.5, print\_token.6,

print\_token.6, print\_token.7, print\_token.8, print\_token.9, print\_token.10, print\_token.11, print\_token.12, print\_token.End

main.9, main.10,

main.10, main.8, main.End]