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 2: [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.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.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, get_token.9,
get_token.End,
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, main.7,
get_token.Start, get_token.1, get_token.3, get_token.4, get_token.6, get_token.8, 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,
is_keyword.Start, is_keyword.1, is_keyword.2, is_keyword.End,
token_type.1, token_type.2, 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, get_token.10,
get_token.12, get_token.14, get_token.16, get_token.17, get_token.18, get_token.19, get_token.17,
get_token.20, get_token.21, get_token.End,

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