

Quiz4

Due Jan 31 at 12pm

Points 9

Questions 6

Available Jan 29 at 12am - Jan 31 at 12pm

Time Limit 10 Minutes

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	10 minutes	8 out of 9

⚠ Correct answers will be available on Jan 31 at 2pm.

Score for this quiz: **8** out of 9

Submitted Jan 29 at 5:30pm

This attempt took 10 minutes.

Question 1

1 / 1 pts

Which one is not part of an interpreter?

- ☐ Evaluator
- ☒ Code generator
- ☐ Parser
- ☐ Scanner

Question 2

4 / 4 pts

Input/Output for each tool?

Input: Program text,
Output: List of tokens

Scanner



Input: List of tokens,
Output: Syntax tree

Parser



Input: Syntax tree,
Output: Program result

Evaluator



Input: Syntax tree,
Output: Machine code

Code generator



Question 3

1 / 1 pts

Regular expressions are used to define the lexical structure of the language

☒ True

☐ False

Question 4

1 / 1 pts

In C, an identifier is defined as a string of characters (both upper-case and lower-case), digits, and underscore “_”, starting with either a character or underscore.

What are the tokens in the string: **hello3 4hi** ?

Apply the principle of longest substring.

☐ hello, 3, 4hi

☐ hello, 3, 4, hi

☐ hello3, 4hi

☒ hello3, 4, hi

Question 5

1 / 1 pts

Which string is not recognized by the regex $(x^*y)^+$?

☐ xxxyy☐ yyyy☒ xxyx☐ xxxy

Incorrect

Question 6

0 / 1 pts

Which string is not recognized by the regex $[a-z]^*(\#|:)?[0-9]^+$?

☐ micky:1996☐ micky☒ #1☐ 1996Quiz Score: **8** out of 9