

Test Compiler Design

Total points 10/10 ?

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✓ A grammar that produces more than one parse tree for some sentence is 1/1 called _____ *

- ☒ Ambiguous ✓
- ☐ Unambiguous
- ☐ Regular
- ☐ None of the above

✓ Which of the following derivations does a top-down parser use while 1/1 parsing an input string? *

- ☒ Leftmost derivation ✓
- ☐ Leftmost derivation in reverse
- ☐ Rightmost derivation
- ☐ Rightmost derivation in reverse

✓ Which of the following derivations does a bottom-up parser use while 1/1 parsing an input string? *

- ☐ Leftmost derivation
- ☐ Leftmost derivation in reverse
- ☐ Rightmost derivation
- ☒ Rightmost derivation in reverse ✓

✓ Which of the following needed to convert an arbitrary CFG to an LL(1) 1/1 grammar? *

- ☐ Removing left recursion only
- ☐ Factoring the grammar alone
- ☒ Factoring & left recursion removal ✓
- ☐ None of the mentioned

✓ Compiler should report the presence of _____ in the source 1/1 program, in translation process. *

- ☐ Classes
- ☐ Object
- ☒ Error ✓
- ☐ Codes

✓ What is the output of the lexical analyser? * 1/1

- ☐ parse tree
- ☒ list of tokens ✓
- ☐ intermediate code
- ☐ machine code

✓ _____ is considered as a sequence of characters in a token. * 1/1

- ☐ Token
- ☒ Lexeme ✓
- ☐ String
- ☐ Word

✓ The grammar $A \rightarrow AA \mid (A) \mid e$ is not suitable for predictive-parsing 1/1 because the grammar is? *

- ☐ Ambiguous
- ☒ Left recursive ✓
- ☐ Right recursive
- ☐ An operator grammar

✓ Which of the following groups is/are token together into semantic 1/1 structures? *

- ☐ Syntax analyzer
- ☐ Intermediate code generation
- ☒ Lexical analyzer ✓
- ☐ Semantic analyzer

✓ Grammar of the programming is checked at _____ phase of compiler. * 1/1

- ☐ Semantic analysis
- ☒ Syntax analysis ✓
- ☐ Code optimization
- ☐ Code generation