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**PAST PAPERS BY WAQAR SIDDHU**

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**VU Answer**

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\_\_\_\_\_ convert the relocatable machine code into absolute machine code by linking library and relocatable object files.

Answer ( Please select your correct option )

Assembler

Loader/link-editor

Compiler

Preprocessor

Correct answer solved by Hadi

Email : usmanraj20@gmail.com

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Parsers take \_\_\_\_ as input from lexical analyzer.

Answer ( Please select your correct option )

Linker

Token

Correct answer solved by Hadi

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Instruction

None of the given

The regular expression \_\_\_\_\_ denotes, the set of all strings of a's and b's of length two

Answer ( Please select your correct option )

a\*

(a\*|b\*)\*

(a\*b\*)\*

(a|b)(a|b)

Correct answer solved by Hadi

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\_\_\_\_\_ is a regular expression for the set of all strings over the alphabet  $\{a\}$  that has an even number of  $a$ 's.

Answer ( Please select your correct option )

$aa^*$

$(aa)^*$

check

Correct answer solved by Hadi

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$aa^*a$

$a(aa)^*$

Made by: Waqar Siddhu

\_\_\_\_\_ phase supports macro substitution and conditional compilation.

Answer ( Please select your correct option )

Semantic

Syntax

Preprocessing

None of given

Correct answer solved by Hadi

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In LL(1) parsing algorithm, \_\_\_\_\_ contains a sequence of grammar symbols.

Answer ( Please select your correct option )

- Stack
- Link List
- Array
- None of the given.

Correct answer solved by Hadi  
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Consider the grammar

$$A \rightarrow B C D$$

$$B \rightarrow h B | \varepsilon$$

$$C \rightarrow C g | g | C h | i$$

Answer ( Please select your correct option )

h, g, i

Correct answer solved by Hadi

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g

h

None of the given.



\_\_\_\_\_ parsers never shifts into an error state.

Answer ( Please select your correct option )

LS

LT

LR

LP

Correct answer solved by Hadi

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In parser, the two LL stand for \_\_\_\_\_ .

Answer ( Please select your correct option )

Left-to-right scan of input

left-most derivation

Left-to-right scan of input and left-most derivation

None of the given

Correct answer solved by Hadi

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\_\_\_\_\_ is elaborated to produce bindings.

Answer ( Please select your correct option )

Declaration

Correct answer solved by Hadi  
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Expression

Command

None of the given

A lexical analyzer generated by \_\_\_\_ is essentially a FSA.

Answer ( Please select your correct option )

Dex



Mex



Fex



Lex



Correct answer solved by Hadi

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The actions (shift, reduce) in a SLR(1) parser depend on a lookahead symbol ( \_\_\_\_\_ ).

Answer ( Please select your correct option )

Current input token

Correct answer solved by Hadi

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Next Input Token

Previous output Token

Previous Input Token.

The following grammar contains a \_\_\_\_\_ conflict.

$S \rightarrow A \mid xb$

Answer ( Please select your correct option )

- Shift-Reduce
- First-Reduce
- Shift-First
- Reduce-Reduce

Correct answer solved by Hadi  
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Considering the following grammar:

$$S \rightarrow AB$$
$$A \rightarrow \varepsilon \mid aA$$
$$B \rightarrow b \mid bB$$

Answer ( Please select your correct option )

1



2



3



4



Simple code generation considers one AST node at the time. When the target is a *stack* machine, the code can be generated in one \_\_\_\_\_ traversal of the AST.

Answer ( Please select your correct option )

Depth-first

Correct answer solved by Hadi

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Breadth-first

First-first

Shift-Reduce



\_\_\_\_\_ is a register allocation technique that *always* finds the minimal number of registers needed for a procedure.

Answer ( Please select your correct option )

Dangling reference

Graph coloring

Correct answer solved by Hadi  
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Left Factoring

Right Recursion

When generating code at the basic block level, the dependency graph must be converted to target code. By identifying \_\_\_\_\_, instruction selection and instruction ordering can be performed efficiently in a single pass.

Answer ( Please select your correct option )

Token sequences

Ladder sequences

check

Correct answer solved by Hadi  
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Physical sequences

Logical sequences

\_\_\_\_\_ can be considered a small compiler since it transforms a source language (assembly) into a less abstract target language (binary object code).

Answer ( Please select your correct option )

- Parser
- Assembler
- Lexical analyzer
- Scanner

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When memory allocator operates on chunks which include some administrative part and a block of user data. The administrative part includes \_\_\_\_\_ flag for marking the chunk as free or in-use.

Answer ( Please select your correct option )

One

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Two

Three

Four

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A parser transforms a stream of tokens into an \_\_\_\_\_.

Answer ( Please select your correct option )

AST

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IST

EST

ATS

**Made by: Waqar Siddhu**

The parser generator yacc can handle \_\_\_\_\_ grammars.

Answer ( Please select your correct option )

LL(1)

Correct answer solved by Hadi

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LT(1)

LS(1)

LF(1)

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Simple code generation considers one AST node at a time. If the target is a *register* machine, the code can be generated in one \_\_\_\_\_ traversal of the AST, possibly introducing temporaries when running out of registers.

Answer ( Please select your correct option )

Depth-first

Correct answer solved by Hadi

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Breadth-first

Depth-second

Breadth-second

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Attributes whose values are defined in terms of a node's own attributes, node's siblings and node's parent are called \_\_\_\_\_.

Answer ( Please select your correct option )

Inherited attributes

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Physical attributes

Logical attributes

Un-synthesized attributes

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A linker combines multiple object files into a \_\_\_\_\_ executable object.

Answer ( Please select your correct option )

Single

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Double

Triple

Quadruple

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The notation \_\_\_\_\_ instructs YACC to push a computed attribute value on the stack.

Answer ( Please select your correct option )

\$\$

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&&

##

--

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The following two items

A  $\rightarrow$  P  $\cdot$  Q

B  $\rightarrow$  P  $\cdot$  Q

can co-exist in an \_\_\_\_\_ item set.

Answer ( Please select your correct option )

LR

Correct answer solved by Hadi

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LS

LT

PR

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The following two items

A  $\rightarrow$  P • Q

B  $\rightarrow$  P • Q

can co-exist in an \_\_\_\_\_ item set.

Answer ( Please select your correct option )

LR

Correct answer solved by Hadi

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LS

LT

PR

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When generating a lexical analyzer from a \_\_\_\_\_ description, the item sets (states) are constructed by two types of “moves”: character moves and  $\epsilon$  moves.

Answer ( Please select your correct option )

Character

Grammar

Token

Sentence

Correct answer solved by Hadf

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Hybrid IRs combine elements of \_\_\_\_\_.

Answer ( Please select your correct option )

Graphical (structural)

Linear IRs

Both graphical and linear IRs

Non-Linear IRs

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$x[i] = y$ 

This is \_\_\_\_\_.

Answer ( Please select your correct option )

 Prefix assignment Postfix assignment Index assignment Non-Index assignment

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A lexical analyzer generator, automatically constructs a \_\_\_\_\_ that recognizes tokens.

Answer ( Please select your correct option )

FA

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PDA

DP

Unidirectional Graph

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if x relop y goto L

Above statement is \_\_\_\_\_

Answer ( Please select your correct option )

Abstract jump

Conditional jump

While loop

Unconditional jump

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In a CFG (Context Free Grammar) the set of terminal and non-terminal symbols must be \_\_\_\_\_.

Answer ( Please select your correct option )

Disjoint

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Logical

Relational

Joint

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YACC contains built-in support for handling ambiguous grammars resulting in \_\_\_\_\_ conflicts.

Answer ( Please select your correct option )

Shift-reduce

Correct answer solved by Hadi

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Shift-Shift

Reduce-reduce

Reduce-Shift

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The \_\_\_\_\_ translation statements can be conveniently specified in YACC.

Answer ( Please select your correct option )

Syntax-directed

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Image-directed

Sign-directed

Segment-directed

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When constructing an LR(1) parser we record for each item exactly in which context it appears, which resolves many conflicts present in \_\_\_\_\_ parsers based on FOLLOW sets.

Answer ( Please select your correct option )

SLR(1)

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LRS(1)

RLS(1)

SLL(1)

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Code generation module has to tackle \_\_\_\_\_.

Answer ( Please select your correct option )

Memory management

Instruction selection

Instruction scheduling

All of the given

Correct answer solved by Hadi

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For convenience, lexical analyzers should read the complete \_\_\_\_\_ program into memory.

Answer ( Please select your correct option )

Input

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Output

Input and output

Tokens

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Considering the following grammar:

$$S \rightarrow A \mid x$$
$$A \rightarrow aAb \mid x$$

The grammar contains a \_\_\_\_\_ conflict.

Answer ( Please select your correct option )

Reduce-reduce

Correct answer solved by Hadi

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First-first

Shift-shift

Shift-reduce

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The order in which the DAG is traversed can lead to \_\_\_\_\_ code

Answer ( Please select your correct option )

- Better
- Worse
- Large
- Garbage

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Register allocation problem uses the strategy of \_\_\_\_\_.

Answer ( Please select your correct option )

Graph coloring

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Graph nodding

Graph edging

Graph patching

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