

Question No : 1 of 26 Marks: 1 (Budgeted Time 1 Min)

Typical compilation means programs written in high-level languages to low-level _____.

Answer (Please select your correct option)

- Object code
 - Byted code
 - Unicode
 - Object Code and byte code
- Correct Answer Solved By Hadi
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03228043306
- Made By: Waqar Siddhu**

Question No : 2 of 26 Marks: 1 (Budgeted Time 1 Min)

In compilation process, Hierarchical analysis is also called _____.

Answer (Please select your correct option)

- Parsing
 - Syntax analysis.
 - Parsing and Syntax analysis
 - None of given
- Correct Answer Solved By Hadi
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03228043306
- Made By: Waqar Siddhu**

Question No : 3 of 26 Marks: 1 (Budgeted Time 1 Min)

IR. (Intermediate Representation) stores the value of its operand in _____.

Answer (Please select your correct option)

- Registers
 - Memory
 - Hard disk
 - None Of given
- Correct Answer Solved By Hadi
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Question No : 4 of 26 Marks: 1 (Budgeted Time 1 Min)

A lexeme is a sequence of characters in the source program that is matched by the pattern for a _____.

no any lexeme
word available in
book

Answer (Please select your correct option)

- Linker
 - Token
 - Control flow
 - None of given
- Correct Answer Solved By Hadi
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Question No : 5 of 26 Marks: 1 (Budgeted Time 1 Min)

Parsers take _____ as input from lexical analyzer.

Answer (Please select your correct option)

- Linker
 - Token
 - Instruction
 - None of the given
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Question No : 6 of 26 Marks: 1 (Budgeted Time 1 Min)

What kind of abstract machine can recognize strings in a regular set?

Answer (Please select your correct option)

- DFA
 - NFA
 - PDA
 - None of the given
- Correct Answer Solved By Hadi
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In multi pass compiler, during the first pass it gathers information about _____.

Answer (Please select your correct option)

- Declaration
 - Bindings
 - Static information
 - None of the given
- Correct Answer Solved By Hadi
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In DFA minimization, we construct one _____ for each group of states from the initial DFA.

Answer (Please select your correct option)

- State
 - NFA
 - PDA
 - None of given
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_____ (Lexical Analyzer generator), is written in Java

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Answer (Please select your correct option)

- Flex
 - Jlex
 - Complex
 - None of given
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Question No : 10 of 26 Marks: 1 (Budgeted Time 1 Min)

In Flex specification file, different sections are separated by _____.

Answer (Please select your correct option)

%%

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&&

##

None of given

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Question No : 11 of 26 Marks: 1 (Budgeted Time 1 Min)

Recursive _____ parsing is done for LL(1) grammar.

Answer (Please select your correct option)

Decent

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Ascent

Forward

None of the given

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Question No : 12 of 26 Marks: 1 (Budgeted Time 1 Min)

Alternative of the backtrack in parser is Look ahead symbol in _____.

Answer (Please select your correct option)

Input

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Output

Input and Output

None of the given

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Question No : 13 of 26 Marks: 1 (Budgeted Time 1 Min)

Parser takes tokens from scanner and tries to generate _____.

Answer (Please select your correct option)

- Binary Search tree
 - Parse tree. Correct Answer Solved By Hadi
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 - Binary Search tree and Parse tree.
 - None of the given
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Question No : 14 of 26 Marks: 1 (Budgeted Time 1 Min)

In predictive parsing table, the rows represents _____.

Answer (Please select your correct option)

- Terminals
 - Both non-terminal and terminals
 - Non-terminals Correct Answer Solved By Hadi
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 - None of the given
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Question No : 15 of 26 Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

- Stack Correct Answer Solved By Hadi
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 - Link List
 - Array
 - None of the given
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Consider the grammar

$$A \rightarrow B C D$$
$$B \rightarrow h B | \epsilon$$
$$C \rightarrow C g | g | C h | i$$

First if A is

Answer (Please select your correct option)

- h, g, i
 - g
 - h
 - None of the given.
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Correct Answer Solved By Hadi
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Consider the grammar

$$A \rightarrow B C D$$
$$B \rightarrow h B | \epsilon$$
$$C \rightarrow C g | g | C h | i$$

if first of C is

Answer (Please select your correct option)

- g, i
 - g
 - h, i
 - None of the given.
- Made By: Waqar Siddhu**

Correct Answer Solved By Hadi
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Bottom-up parsing uses only _____ kinds of actions.

Answer (Please select your correct option)

- Two
 - Three
 - Four
 - Five
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Question No : 19 of 26 Marks: 1 (Budgeted Time 1 Min)

The shift action _____ a terminal on the stack.

Answer (Please select your correct option)

- Pushes
 - Pops
 - Both push and pops
 - None of the given
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Question No : 20 of 26 Marks: 1 (Budgeted Time 1 Min)

Reduce action _____ zero or more symbols from the stack.

Answer (Please select your correct option)

- Pushes
 - Pops
 - Both push and pops
 - None of the given
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Correct Answer Solved By Hadi
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Question No : 21 of 26 Marks: 2 (Budgeted Time 4 Min)

Consider the following C++ function as an input to the Parser.

```
1. int* foo(int i, int j)
2. {
3. for(k=0; i < j; )
4. fi(i > j)
```

Answer (Please [click here](#) to Add Answer)

Normal Arial 12 B I U

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Question No : 21 of 26

Marks: 2 (Budgeted Time 4 Min)

```
4. fi(i > j)
5. return j;
6. }
```

What is the syntactic error at line 4? How will Parser recognize this syntactic error?

Answer (Please [click here to Add Answer](#))

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Question No : 22 of 26

Marks: 2 (Budgeted Time 4 Min)

What is upper frontier with respect to discovering handles in shift-reduce parsing?

Answer (Please [click here to Add Answer](#))

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Question No : 23 of 26

Marks: 3 (Budgeted Time 6 Min)

Consider the following C++ function as an input to the Parser.

```
int* foo(int i, int j)
{
  for(k=0; i < j; j++)
  if( i < j-2)
```

Answer (Please [click here to Add Answer](#))

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Question No : 23 of 26

Marks: 3 (Budgeted Time 6 Min)

```
if( i < j-2 )
sum = sum+i
return sum;
}
```

What will be the semantic errors reported by the Parser in the above code?

Answer (Please [click here to Add Answer](#))

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Question No : 24 of 26

Marks: 3 (Budgeted Time 6 Min)

Considering the following grammar, calculate the first set of non-terminals S, A and B.

```
S → AB
A → a | e
B → b | e
```

Answer (Please [click here to Add Answer](#))

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Question No : 25 of 26

Marks: 5 (Budgeted Time 10 Min)

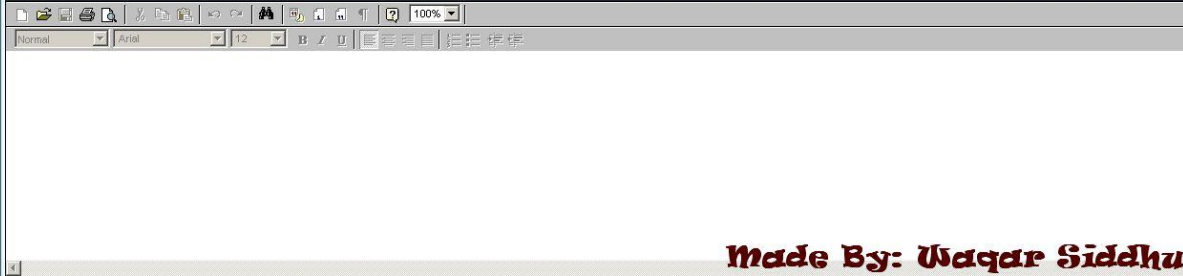
Consider the following grammar;

Statement \rightarrow if expression then statement else statement

Statement \rightarrow if expression then statement

You are required to provide an alternate production(s) so that it may become free from the backtracking.

Answer (Please [click here to Add Answer](#))



A rich text editor interface with a toolbar at the top containing icons for undo, redo, bold, italic, underline, link, unlink, list, and table. Below the toolbar is a dropdown menu for text styles (Normal, Arial) and a font size dropdown (12). The main area is a large empty text box for the answer.

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Question No : 26 of 26

Marks: 5 (Budgeted Time 10 Min)

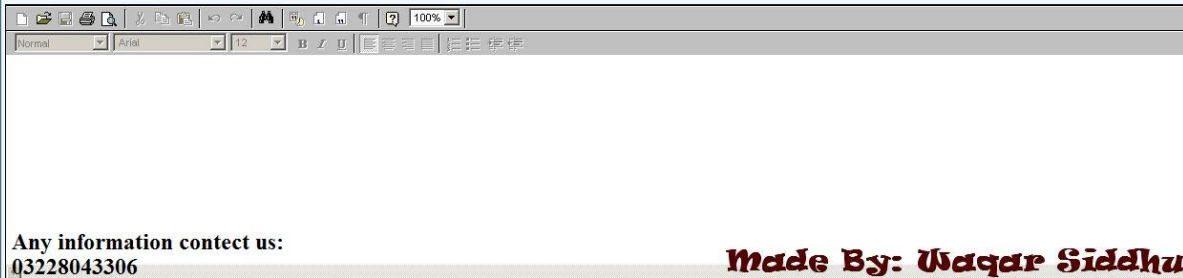
Considering the following grammar, reduce the string "abbcbode" using Bottom-up parsing

$S \rightarrow aABe$

$A \rightarrow Abc \mid b$

$B \rightarrow d$

Answer (Please [click here to Add Answer](#))



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