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Question No : 41 of 52

Marks: 2 (Budgeted Time 4 Min)

Suppose you are making a transition table from a DFA. You find a situation where a state has multiple outgoing paths; one is for epsilon and other for any other alphabet. Which transition will you perform first?

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

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DFA me nul ki transion hoti hi nhi mamu
chohdri kukar khan shabaloo

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41



Question No : 42 of 52 **Marks: 2 (Budgeted Time 4 Min)**

How a flow graph can be a Reducible Flow Graph?

Answer (Please click here to Add Answer)

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Reducible Flow Graphs: If every retreating edge is a back edge, regardless of which depth-rst spanning tree is chosen, then the flow graph is said to be reducible.

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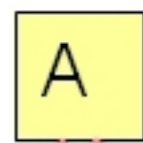


42



Question No : 43 of 52 Marks: 2 (Budgeted Time 4 Min)

Traverse the following tree in Inorder.



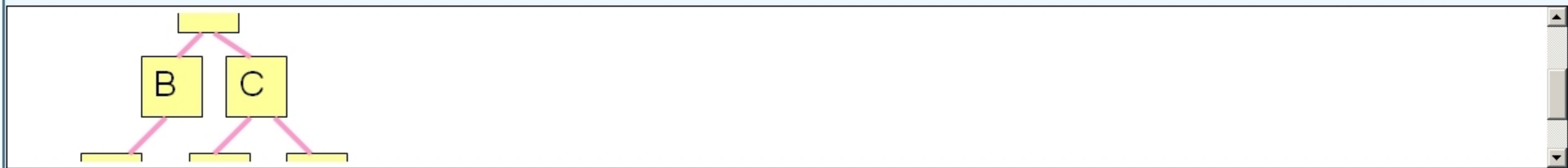
Answer ([Please click here to Add Answer](#))

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Question No : 43 of 52 Marks: 2 (Budgeted Time 4 Min)



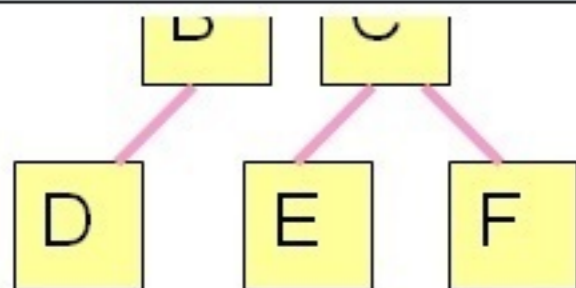
Answer ([Please click here to Add Answer](#))

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Question No : 43 of 52 Marks: 2 (Budgeted Time 4 Min)



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

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ABCDEF

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Question No : 44 of 52

Marks: 2 (Budgeted Time 4 Min)

Identify, whether the following grammar is LR(1) or LL(1)?

 $S \rightarrow Aca \mid Bcb$ $A \rightarrow c$ $B \rightarrow c$ Answer ([Please click here to Add Answer](#))

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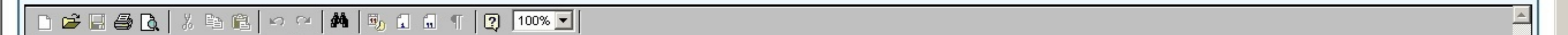
44



Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

Is the given grammar ambiguous? Explain reason in both cases if your answer is yes or no.

$$G \rightarrow E$$
$$E \rightarrow T + E \mid T$$
$$T \rightarrow F * T \mid F$$
$$F \rightarrow a$$
Answer ([Please click here to Add Answer](#))

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yes
bcz of E n T has 2 values

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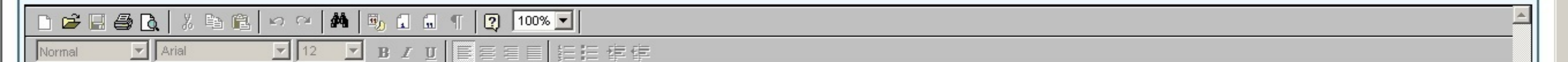
45



Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

How can compiler transformation improve a program?


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

These are called the *LALR(1) states*. LALR(1) stands for **LookAhead LR(1)**. This leads to tables that have 10 times fewer states than LR(1).

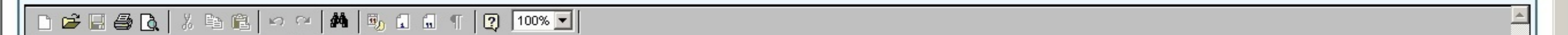

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








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Question No : 47 of 52

Marks: 3 (Budgeted Time 6 Min) 

Which information we can get from the third section of YACC file?

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

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Definitions get from 1st section
%%
Rules get from 2nd section
%%
C/C++ functions get from third section

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Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

Transform the following basic block into its equivalent block after performing common sub-expression elimination.

```
A := 6 * (B+C);  
D := A * (B+C);
```

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

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intahai chawal he paper dene wala

```
temp=(B+C)  
A=temp*6  
D=temp*A
```

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Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

Considering the following grammar, calculate the first set of non-terminals X, Y, Z and follow set of non-terminals X and Y.

$$X \rightarrow YZa \mid f$$
$$Y \rightarrow bY \mid d$$
$$Z \rightarrow cZ \mid e$$
Answer ([Please click here to Add Answer](#))

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first set

$$X = \{a, f, b, d, c, e\}$$
$$Y = \{b, d\}$$
$$Z = \{c, e\}$$

fellow set

$$X = \{\$ \}$$

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
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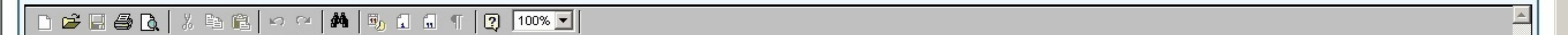

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Question No : 50 of 52

Marks: 5 (Budgeted Time 10 Min) 

Develop an algorithm to generate LALR(1) DFA.

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

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Repeat until all states have distinct code
choose two distinct states with same core
merge states by creating a new one with the union of all the items
point edges from predecessors to new state
new state points to all the previous successors

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Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

Add semantic rules to the following grammar to compute the attribute **rm** whose value is the rightmost terminal in the string we parsed.
Note: subscripts in the grammar below are only to distinguish multiple instances of the same non-terminal.

$$S \rightarrow A \quad \{S.rm =$$
$$A \rightarrow A_1 x y$$
Answer ([Please click here to Add Answer](#))

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S.nptr = A.nptr
S.nptr = mknode('rm', y.val)
A.nptr = mknode('x', A1.nptr, x.val, y.val)
A.nptr = mknode('y', B.nptr, A1.val, y.val)
B.nptr = mknode('z', B1.nptr, z.val)
B.nptr = mkleaf('x', x.val)

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Question No : 51 of 52 Marks: 5 (Budgeted Time 10 Min)

A $\rightarrow A_1 \times y$
| B $A_1 y$

B $\rightarrow B_1 z$
| x

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

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Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

Translate each of the following instruction set into simple words.

```
if x then goto L
if !x then goto L
param x
call p,n,x
```

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

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Rich text editor toolbar with dropdowns for font style (Normal), font face (Arial), and font size (12), along with bold, italic, underline, and alignment icons.

if x true goto L
if x not true then go to L
reciveing the paramtr x
call the function p,n,x ..

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Question No : 52 of 52 Marks: 5 (Budgeted Time 10 Min)

```
if x then goto L
if !x then goto L
param x
call p,n,x
return x
```

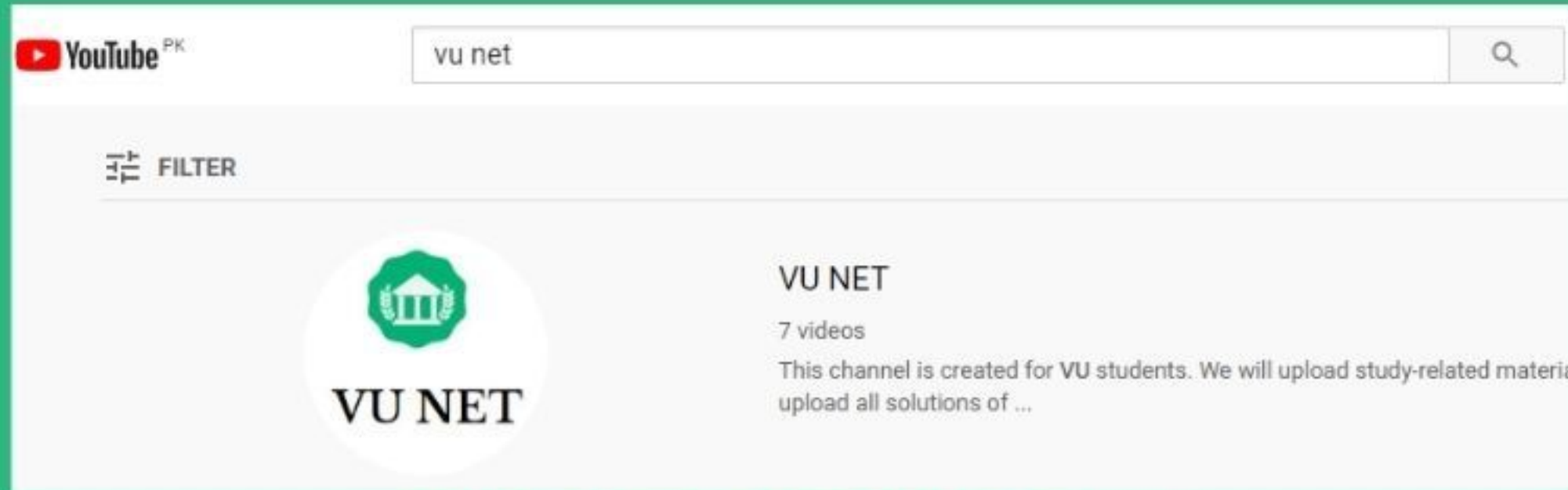
Answer (Please click here to Add Answer)

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52 [Progress bar] [Info icon] [Previous question] [Next question] [Previous question] [Next question] [Print icon]

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