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Past Papers by Waqar Siddhu
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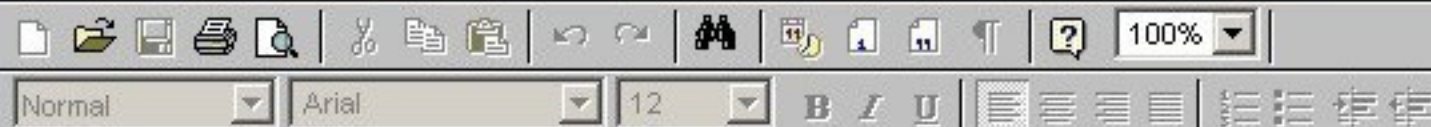
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What is meant by "Left most Derivation" in context of CFG?

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

VuAnswers.com



Lec:36,page:103

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Explain the language L of string, defined over $\Sigma = \{0,1\}$, having double 0's or double 1's?

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

VuAnswers.com



$(0+1)^*(00+11)(0+1)^*$

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Consider the language defined by the following regular expression:

$b(a + b)^*a$

What will be the corresponding Context Free Grammar (CFG)?

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

VuAnswers.com



Lec:32,Page:91

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Consider live productions to be applied during derivation of a word. In your point of view what will be the ultimate result?

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

VuAnswers.com



Lec:43

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What is meant by the following statement ?

"LANGUAGE IS CLOSED"

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

VuAnswers.com



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Write three different parsing techniques.

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

VuAnswers.com



page:136 lec:44

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Illustrate Decidable Problem with the help of an example.

Marks [1+2]

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

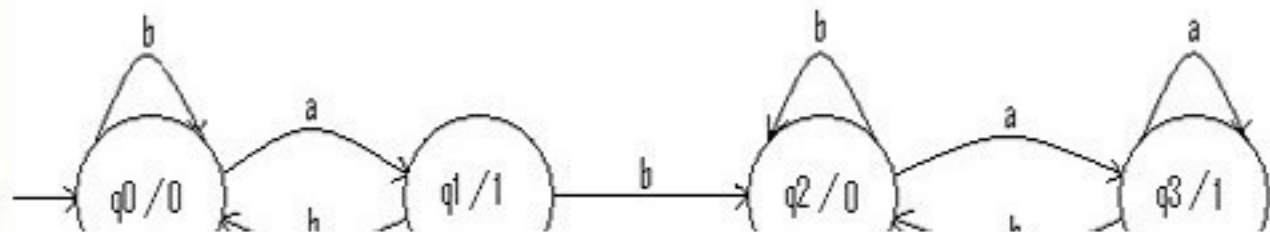
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Lec:29,page80

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Consider the following Moore machine:



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

VuAnswers.com



Normal Arial 12 B I U

Made by: Waqar Siddhu

Consider the language L which is EVEN-EVEN, defined over $\Sigma = \{a,b\}$. In how many classes does L may partition Σ^* . Explain briefly.

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

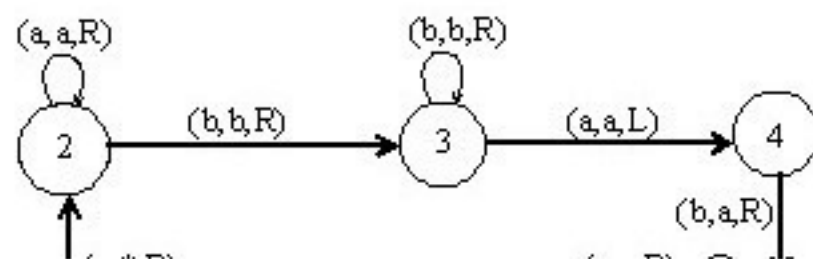
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Lec:28,Page:77

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Consider the following TM



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

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Normal Arial 12 B I U

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Derive Chomsky Normal Form (CNF) corresponding to the Context Free Grammar (CFG) given below:

$$A \rightarrow BAB \mid B \mid \Lambda$$

$$B \rightarrow 00 \mid \Lambda$$

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

VuAnswers.com



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Suppose a Maze of 20 boxes; 1 box for initial and 1 for final state. 6 boxes are for non-moveable states while the rest can be used for transitions. Draw a Nondeterministic Finite Automaton (NFA) for the given Maze.

Marks [2.5+2.5]

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

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Write alternative form of this production.

$S \rightarrow aS, S \rightarrow bS, S \rightarrow \Lambda$

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

VuAnswers.com



$S \rightarrow aS|bS|\Lambda$

e:90

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What are the uses of Push Down Automata (PDA) in computing?

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

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PUSHDOWN STACK is a place where the input letters can be placed until these letters are referred again.

It can store as many letters as one can in a long column

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What is meant by Row language?

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

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Lec:41,page:123

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Write down regular expression for a language L of strings defined over $\Sigma = \{a, b\}$ that neither ends in "a" nor with "b".

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

VuAnswers.com

RE= ϵ (null)

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What are the steps of Recursive Definition of Languages?

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

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Lec:3,page:9

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What does the following arbitrary summary table show?

FROM Where	TO Where	READ What	POP What	PUSH What	ROW Number
READ ₀	READ ₃	b	b	abb	11

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

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Lec:42,page:124

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Write down Context Free Grammar (CFG) for the language of strings expressed by the following regular expression:

$(a + b)^*(a + b)^+$

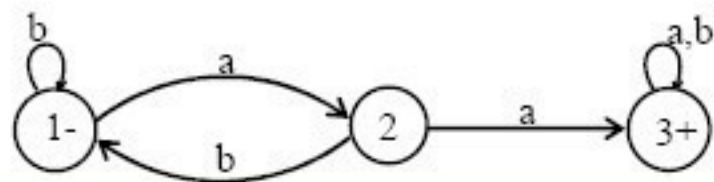
Answer ([Please click here to Add Answer](#))

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Let us consider the following Finite Automaton (FA):



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

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Lec:6,page:16

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Write the CFG for EVEN-EVEN language?

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

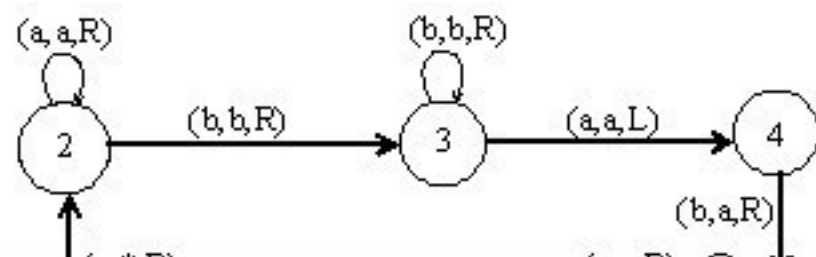
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Lec:32,page:90

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Consider the following TM



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

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page 142

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Using suitable examples, differentiate between Kleene star closure and plus operation?

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

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Lec:2,page:7

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a. Construct Context Free Grammar (CFG) for the language defined by the regular expression:

$$(ab + ba)^*(a + b)^*$$

b. Remove null productions from the CFG constructed in part i.

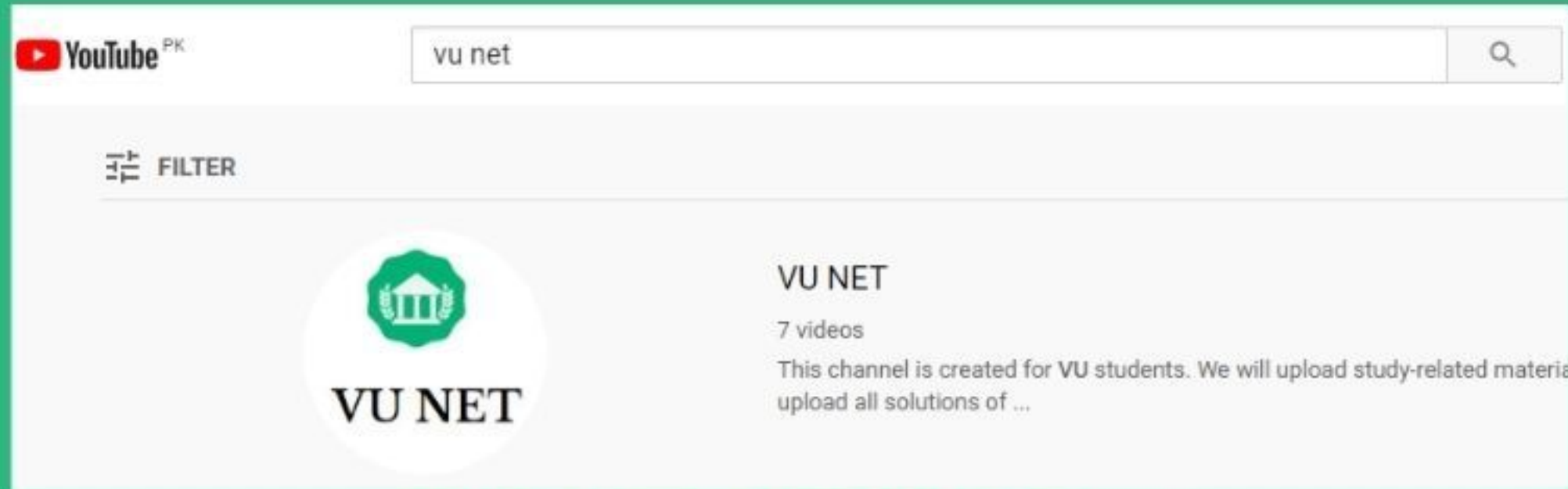
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