Names .	Jesse	Shai	hor,	Jay Vang	
	Crist	ri qın	Sal	inas	

Use the provided tables to answer the question .

Given the following CFG

(5 points) Remove left-recursions. Find members of FIRST and FOLLOW

Remove left recursions	States	FIRST	FOLLOW
A? BA' A'? +BA'	Α	{ (a, }	E(*-+d}
A'[] -BA' A'[] *BA'	A'	{+ - \lambda }	{b+-*)}
A'n λ Βn (A) I a	В	8103	{(*-+4}

2. (5 points) Given CFG below. Complete the table where Terminals= $\{id(,) if else \};\}$, Non-terminals= $\{SLCE\}$

S? if (E) S else S; S? i(L)

O. .(L

L? EC

C?? λ

C? , **E** C

E? i

E? d

States	FIRST	FOLLOW
S	Eif i3	{ # else j }
L	2 i d3	٤) ٦
С	ξλ,3	{ } }
E	£ i d3	{ } \ \ 1 }

3. (5 points) Complete the table for the given CFG where Terminals= $\{e \ f \ h \ g \ f \ i \ \}$, Non-terminals= $\{S \ A \ B \ C \ D \ \}$

S? AB

S? Cf

A? ef

Α?λ

B? hg

C? DD

C_₹ fi

D?g

States	FIRST	FOLLOW
S	ee d g f 3	E #3
Α	{eλ }	Łh3
В	2 h 3	£ # 3
С	{5 + 3	{ f 3
D	£ 93	દ નુ રૂ

4. (5 points) Complete the table for this CFG. Terminals={ b d a}, Non-terminals={ S T U V}

S? TU

T aVa

Τ? λ

States	FIRST	FOLLOW
S	8 a h 3	{
Т	ξα λζ	£ b 3
U	£ b 3	£ # b 3 10
V	£ b d }	έα λξ