

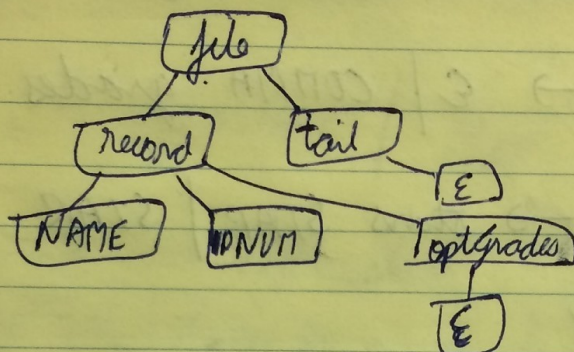
SPARSH AGARWAL

CS 536.

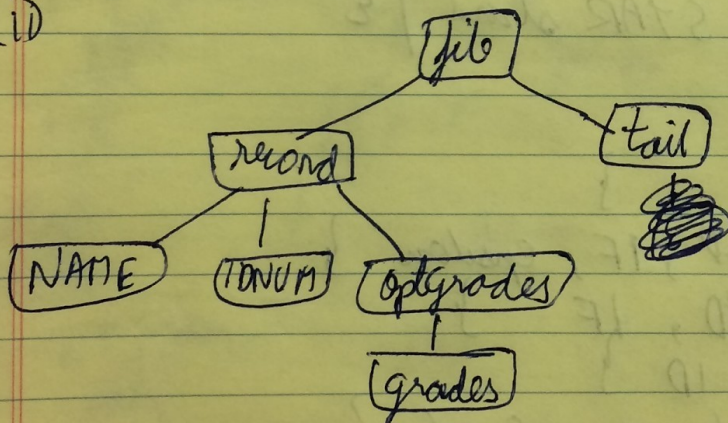
HW 6

9075905142

A) @ (i) NAME IDNUM EOF
(ii)



(b) (i) NAME IDNUM INTLIT.
(ii)



It will get ~~stumped~~ at grades because it does not know ~~the~~ which production to process.

(iii) grades \rightarrow oneGrade
grades \rightarrow oneGrade ~~COMMA~~ grades
These are the 2 ~~rules~~ rules which ~~cannot be used~~ ^{make it difficult} to make the choice.

A③ $grades \rightarrow onegrade / onegrade\ comma\ grades.$

\Downarrow

$grades \rightarrow onegrade\ onegrade'$

~~$onegrade \rightarrow \epsilon / comma\ grades$~~

$onegrade' \rightarrow \epsilon / comma\ grades.$

d) $stars \rightarrow stars\ STAR / STAR.$

\Downarrow

$stars \rightarrow STAR\ stars'$

$stars' \rightarrow STAR\ stars' / \epsilon$

A2) FIRST sets

program	{ { }
stmts	{ ID, IF, epsilon }
stmt	{ ID, IF }
exp	{ ID }
tail	{ +, -, epsilon }

FOLLOW sets

program	{ EOF }	
stmts	{ }	
stmt	{ ID, IF, epsilon }	
exp	{ ; ,) }	{ semicolon & LPAREN }
tail	{ ; ,) }	{ semicolon & LPAREN }