SPARSH AGARWAL CS 536 HW 7 9075905142

AD The entra productions needed are
(assuming that id is a non terminal used for production to 10)

1) lyne -> 18 id 2) typeded -> TYPEPEF STRUCT ligo id SEMICOLON 3) structured -> id LCURLY structbody RCURLY SEMICOCON

A2) (i) a flag to check if it is a type on a variable

A3) The symbol table will be

	pame	type	yog	LUNK	1
6	Morth Day Year	struct	Folse		1
0		MonthDaylean	true	MonthDayYear	1
0	date	Monthlay/ear	False	dote	1
(3)	today	10	True		1
(9)	dollars	int	Gos False	dollars	1
(5)	Salary	int			1
(2)	no red Illans	int	Trule	dollars	
6		int	False	morelollars	
	nd	int	False		
(8)	d				

A2 (a) a flag to check if it is a type or a variable (i) a link to connect it to its type or id from all which it is created Elipidalso maintain a type iterriable of in all alias to specify & pass on their type to Children. (6) I first xxx should be check for displeate declarations,

Then if xxx has not been declared before, I should be

(b) - Jerse xxx should be check for desperte declarations,

Then if xxx has not been declared before, I should be
checked by lookupglobal for latest decleration 8

its type should be determined also whether it is
itself a type on alias or varioble should be
determined.

time, create a new symbol with type similar to T& create a lipk of x x x to T, flag of type is true serice this is a type alias. (c) To process a declaration of variable, junction on parameter rapped xxx' with type 7. I just check for duplicate declarations of xxx

Then check if The a valid type (built-intype, struct type or check by lookupglobal if its latest declaration has Hog of typealias true)

- 'y' 7 is valid type 8 'xxx' is unique, create a new symbol in symboltable with some 'xxx' & type I & put type of 7 in type of 'xxx' also the since this is not a typedel, also link it with its parent node. a) To process xxx in a statement, check its flag
whether is a type alias or varioble & then handle
it occordingly using its type field & link to parent
symbol.