

Q1:

varDecl → typedef

typedef → TYPEDEF type ID SEMICOLON

type → ID | STRUCT ID

Q2:

(a) we should store it's type information and kind information (var, typedef, struct or func)

(b)

info = globalLookup(T.name);

if info is null or info.kind != "typedef"

throw an error;

info = localLookup(xxx.name);

if info != null

throw an error

if no error

add xxx to current symtable, and set kind = 'typedef', type=T.type

(c) same as handling the typedef, just change the kind to var, function or parameter

(d) info = globalLookup(T.name)

if info is null and info.kind != 'typedef'

throw an error

info = localLookup(xxx.name)

if info != null

throw an error

if no error

link the use to the xxx's decl

Q3:

1.MonthDayYear	the kind is struct	and the type is struct MonthDayYear
2.date	the kind is typedef	and the type is struct MonthDayYear
3.today	the kind is variable	and the type is struct MonthDayYear
4.dollars	the kind is typedef	and the type is int
5.salary	the kind is variable	and the type is int
6.moreDollars	the kind is typedef	and the type is int
7.md	the kind is variable	and the type is int
8.d	the kind is variable	and the type is int