HW7

Q1

typedef -> TYPEDEF type ID ID SEMICOLON

typedef -> TYPEDEF ID ID SEMICOLON

Q2

1. Check if T is a built-in type; if not, check if T is of format “struct TT” and TT is existing ID in symbol table globally; if not, check if T is an existing ID in symbol table globally
2. Check if xxx is an existing ID in symbol table globally
3. Before everything, one should create a class TypedefSym that has a type field and is a child of SemSym class. After the above checks, look for T’s actual type in symbol table. Add an entry to symbol table key: xxx value: TypedefSym(actual type).
4. The built-in type or struct ID it is associated with.

MonthDayYearstruct Value: StructSym(fields:

month Value: Varsym(int)

day Value: Varsym(int)

year Value: Varsym(int)

)

date Value: TypedefSym(MonthDayYear)

today Value: VarSym(MonthDayYear)

dollars Value: TypedefSym(int)

salary Value: VarSym(int)

moreDollars Value: TypedefSym(int)

md Value: VarSym(int)

d Value: VarSym(int)