## compilers 2 : mini-assignment 3

## Raj Patil CS18BTECH11039

C grammar:

```
$ yacc CGrammar.y
> CGrammar.y: warning: 1 shift/reduce conflict [-Wconflicts-sr]
a single shift reduce conflict occurs in the C grammar
a good report can be immediately observed by using
yacc -rall CGrammar.y
    State 333 conflicts: 1 shift/reduce
\dots going to state 333:
State 333
192 selection_statement: IF '(' expression ')' statement . [IDENTIFIER, CON-
STANT, STRING LITERAL, SIZEOF, INC OP, DEC OP, CASE, DEFAULT,
IF, ELSE, SWITCH, WHILE, DO, FOR, GOTO, CONTINUE, BREAK, RE-
TURN, '(', '&', '*','+','-','-','-',';';','{','}'] 193 | IF '(' expression ')' statement .
ELSE statement
ELSE shift, and go to state 343
ELSE
           [reduce using rule 192 (selection_statement)]
$default reduce using rule 192 (selection_statement)
```

here we can see that the conflict is resolved by reduction using rule 192.