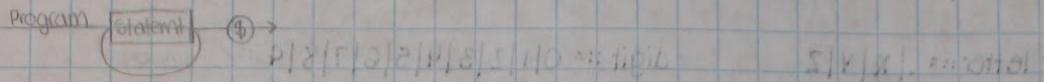
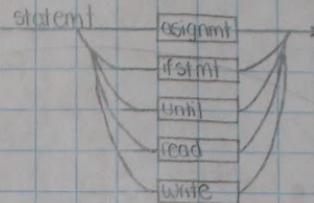


AI 135 syntax diagrams and show that grammar meets 2 rules of predictive parsing

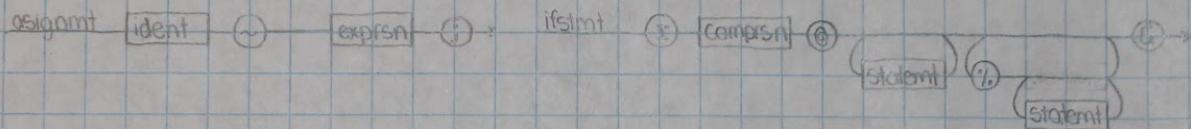
• program ::= statment & statment3



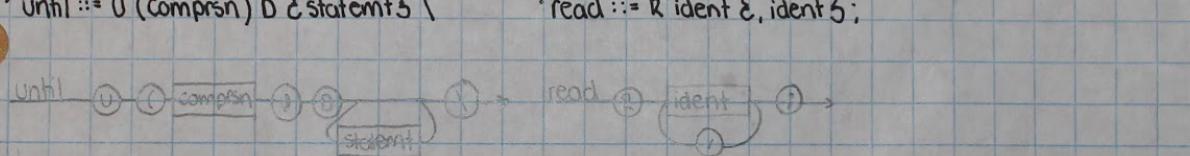
• statment ::= assignmt | ifstmt | until | read | write



• assignmt ::= ident ~ exprsn;

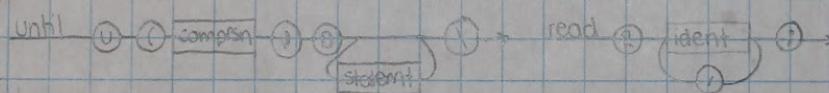


• ifstmt ::= I comparson @ E statment3 [% E statment3] &



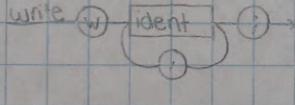
• until ::= U (comprsn) D E statment3 \

• read ::= R ident E, ident3 ;



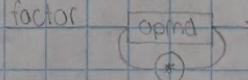
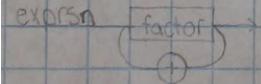
• write ::= W ident E, ident3 ;

• comparson ::= (oprnd opratr oprnd)



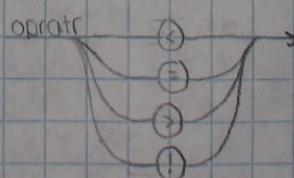
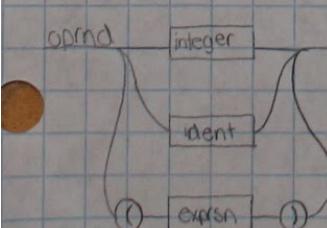
• exprsn ::= factor E + factor 3

• factor ::= oprnd E, oprnd 3



oprnd ::= integer | ident | (exprsn)

• opratr ::= < | = | > | !



• ident ::= letter & char³

ident

letter

char

• char ::= letter | digit

char

letter

digit

• integer ::= digit & digit³

integer

digit

digit

• letter ::= _ | x | y | z

letter



• digit ::= 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9

digit

