**GRAMÁTICA**

**BLOCO →** IFELSE BLOCO **|** ATR BLOCO **|** DECL BLOCO **|** FOR BLOCO **|** WHILE BLOCO **|** PRINT BLOCO **|** ε

**DECL** **→** INT **|** FLOAT **|** STRING **|** BOOLEAN

**PRINT →** saida ( id | txt| EXP ) ;

**INT** **→** inteiro id INT’

**INT’→** ; | = INT’’

**INT’’ →** EXP ; | entrada( );

**FLOAT** **→** decimal id FLOAT’

**FLOAT’** **→** ; **|** = FLOAT’’

**FLOAT’’→** EXP ; **|** entrada();

**STRING →** texto id STRING’

**STRING’** **→** ; **|** = STRING’’

**STRING’’** **→** txt ; | entrada();

**BOOLEAN** **→** estado id BOOLEAN’

**BOOLEAN’** **→** ; **|** = BOOLEAN’’

**BOOLEAN’’** **→** real ; | barça ;

**ATR →** id X

**X →** = Y

**Y →** EXP ; | txt ; **|** bool ; | entrada() ;

**EXP →** T R

**R →** + T R **|** - T R **|** ε

**T →** F S

**S →** \* T R **|** / T R **|** ε

**F →** ( EXP ) **|** id **|** NUM

**IFELSE →** se ( COND ) { BLOCO } cnao { BLOCO }

**COND →** id OP COND’

**COND’ →** id **|** NUM

**OP →** < **|** > **|** <= **|** >= **|** == **|** !=

**NUM →** float **|** int

**FOR** **→** para ( ATR\_FOR ; COND ; INC ) { BLOCO }

**ATR\_FOR** **→** inteiro id = (num | id)

**INC** **→** id = id OP\_MAT num

**OP\_MAT** **→** + | - | / | \*

**WHILE →** enquanto ( condição ) { BLOCO }