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**Rust interpreter using Python**

Language Grammar

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Compilers Design

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**Language Grammar**

TOKEN CLASSES ARE IN THIS TYPE FONT

***Keywords / Reserved words are in this type font***

1. program → declarationList
2. declarationList → declarationList declaration | declaration
3. declarationList → declaration declartionList | declaration
4. declaration → varDeclaration | constDeclaration | staticDeclaration
5. varDeclaration → ***let*** IDVAR EQUAL IDVAR SEMCL| ***let*** IDVAR EQUAL INTVR SEMCL **|** IDVAR EQUAL IDVAR SEMCL | IDVAR EQUAL INTVR SEMCL
6. constDeclaration → ***const*** IDVAR EQUAL IDVAR SEMCL
7. staticDeclaration → ***static*** IDVAR EQUAL IDVAR SEMCL
8. number → INTVR
9. iterationStmt → ***for*** IDVAR ***in*** expression
10. selectionStmt → ***if*** IDVAR EQUAL IDVAR | ***if*** IDVAR EQUAL IDVAR ***else*** IDVAR | ***if*** IDVAR EQUAL IDVAR ***else*** expression | ***if*** expression EQUAL expression | ***if*** expression EQUAL expression ***else*** expression | ***if*** IDVAR EQUAL INTVR | ***if*** IDVAR EQUAL expression
11. expression → ***let*** IDVAR EQUAL STRING SEMCL | ***let*** IDVAR EQUAL IDVAR SEMCL| ***let*** IDVAR EQUAL INTVR
12. relExpression → sumExpression relop sumExpression
13. relop → <= | < | > | >= | == | !=
14. sumExpression → expression ADDOP expression | expression SUBOP expression
15. constant → **true | false**