

Grammatica BNF

program → *decl-list* | *body*
decl-list → *decl* ; *decl-list* | ε
decl → *type* : *id-list*
type → **intero** | **decimale** | **stringa** | **boolean**
id-list → **id** , *id-list* | **id**
body → **inizio** *stat-list* **fine** .
stat-list → *stat* ; *stat-list* | ε
stat → *assign-stat* | *se-stat* | *ripeti-stat* | **stop** | *scrivi-stat* | *inserisci-stat* | *inc-dec-stat*
assign-stat → **id** = *rhs-assign-stat*
rhs-assign-stat → *math-expr* | **bool-const** | **string-const**
bool-const → **vero** | **falso**
math-expr → *math-expr* + *math-term* | *math-expr* - *math-term* | *math-term*
math-term → *math-term* * *math-factor* | *math-term* / *math-factor* | *math-factor*
math-factor → (*math-expr*) | *radice-stat* | **num-const**
radice-stat → **radice** (*math-expr*)
num-const → **intconst** | **realconst** | **id**
se-stat → **se** (*logical-expr*) **vero fai** : *stat-list* **altrimenti-stat fine**
altrimenti-stat → **altrimenti** : *stat-list* | ε
logical-expr → *logical-expr* e *rel-expr* | *logical-expr* o *rel-expr* | *rel-expr*
rel-expr → *rel-term* < *rel-term* | *rel-term* <= *rel-term* | *rel-term* > *rel-term* |
 rel-term >= *rel-term* | *rel-term* == *rel-term* | *rel-term* != *rel-term* | *rel-term*
rel-term → *num-const* | **id** | (*logical-expr*)
ripeti-stat → **ripeti intconst volte** : *stat-list* **fine**
scrivi-stat → **scrivi** (*scrivi-arg*)
scrivi-arg → **strconst** | **id** | **num-const**
inserisci-stat → **inserisci** (**id**)
inc-dec-stat → **id++** | **id--**