

## Mini – Power

`<stmts>`       $\rightarrow$  `<stmt> { ; <stmt> }`

`<stmt>`       $\rightarrow$  `( <print-stmt> | <assgmt-stmt> )`

`<print-stmt>`  $\rightarrow$  `PRINT ( <id> | <const> )`

`<assgmt-stmt>`  $\rightarrow$  `<id> = ( <expr> | <string> )`

`<id>`       $\rightarrow$  `<letter> { ( <letter> | <digit> ) } ( $ | # | % )`

`<expr>`       $\rightarrow$  `<expr> ( + | - ) <term> | <term>`

`<term>`       $\rightarrow$  `<term> ( * | / ) <factor> | <factor>`

`<factor>`     $\rightarrow$  `<expr> ^ <factor> | ( <expr> ) | <num-const> | <id>`

`<const>`     $\rightarrow$  `<num-const> | <string>`

`<num-const>`  $\rightarrow$  `<int-const> | <real-const>`

`<int-const>`  $\rightarrow$  `[ ( + | - ) ] <digit> { <digit> }`

`<real-const>`  $\rightarrow$  `[ ( + | - ) ] <digit> { <digit> } . { <digit> }`

`<string>`     $\rightarrow$  `" { ( <letter> | <digit> ) } "`

`<digit>`     $\rightarrow$  `( 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 )`

`<letter>`     $\rightarrow$  `( a | b | c | d | e | f | g | h | i | j | k | l | m | n | o | p | q | r | s | t | u | v | w | x | y | z )`