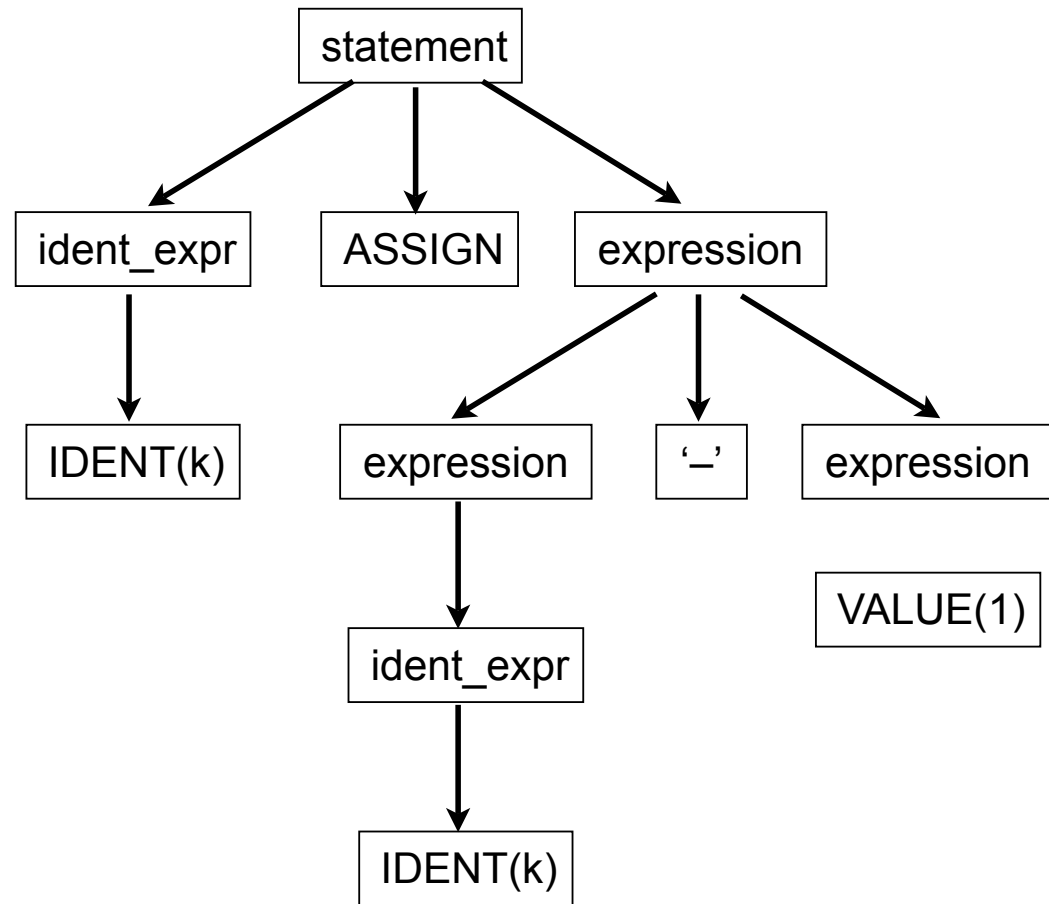


```

function fac(n);
var k;
begin
  if n = 0 then
    return 1;
  while n >= 1 then
  begin
    k := n - 1;
    k := n * fac(k);
    return k;
  end
end;

var x;
begin
  read x;
  x := fac(x);
  write x;
end.

```



```

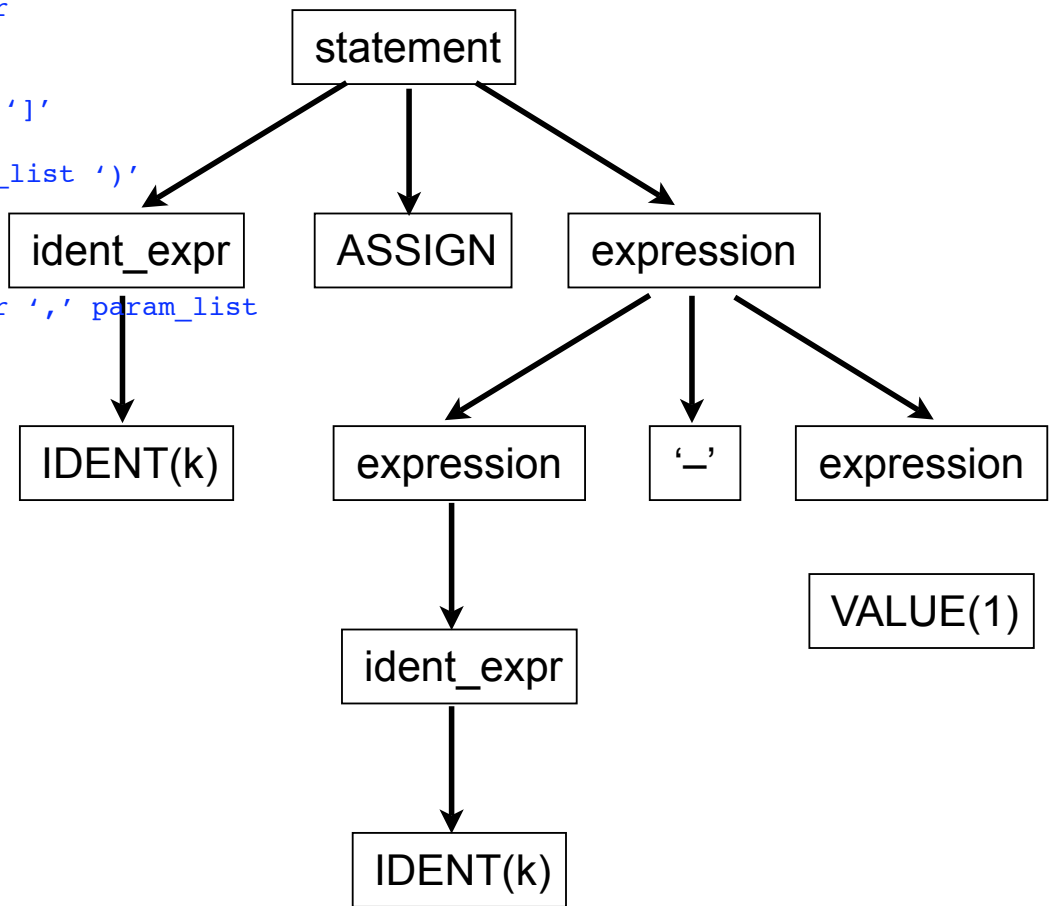
expression ::= expression '+' expression
            | expression '-' expression
            | expression '*' expression
            | expression '/' expression
            | '-' expression
            | '+' expression
            | '(' expression ')'
            | IDENT actual_params
            | ident_expr
            | VALUE
            ;
ident_expr ::= IDENT '[' expression ']'
            ;
actual_params ::= '(' param_list ')'
              | '(' ')'
              ;
param_list ::= ident_expr
             | ident_expr ',' param_list
             ;

```

```

expression ::=
    expression '+' expression
    expression '-' expression
    expression '*' expression
    expression '/' expression
    '-' expression
    '+' expression
    '(' expression ')'
    IDENT actual_params
    ident_expr
    VALUE
;
ident_expr ::=
    IDENT '[' expression ']'
;
actual_params ::=
    '(' param_list ')'
    '(' ' ' ')'
;
param_list ::=
    ident_expr
    ident_expr ',' param_list
;

```



```
program power
var a, n, p;
begin
    read a;
    read n;
    p := 1;
    i := 0;
    while (i < n)
    begin
        i := i + 1;
        p := p * a;
    end;
    write p;
end.
```

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CS162 Programming Languages

- Instructor: Vebjorn Ljosa, Trailer 936, room 103
Office hours: T 14:00–16:00
- Teaching assistant: Aram Melkounian
Office hours: TBD
- Lectures: TR 12:30–13:45, Bldg. 387, room 103
(between Psychology and parking lot 3)
- Discussions: F 09:00/09:50, Phelps Hall, room 1401
- Midterm exam: T 2007-02-13, regular time and place
- Final exam: T 2007-03-20, 12:00–15:00, place TBA

Current News

- Please sign up for the CS162 mailing list.
- Short office hours on 2007-01-09: only from 14:00 to 15:00.
- No discussion on 2007-01-12.
- No TA office hours the first week.
- Reading assignment for 2007-01-11 has been posted.


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Updated 2007-01-11
Questions should be directed to Vebjorn Ljosa

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Lectures

No.	Date	Topic(s)	Notes	Slides
1	2007-01-09	Introduction	L1 - Introduction.pdf	L1 - Introduction Slides.pdf

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Reading assignments

Date	Topic(s)	Assignment
2007-01-11	Introduction	" Beating the averages " by Paul Graham
	Syntax and semantics	Ghezzi & Jazayeri 1.7.1--1.7.3, 2.1--2.4
2007-01-16	Variables, binding, and argument passing	Ghezzi & Jazayeri 2.5--2.7

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