
```

%{
double vbltable[26];
%}

5 %union {
    double dval;
    int vblno;
}

10 %token <vblno> NAME
%token <dval> NUMBER
%left '-' '+'
%left '*' '/'
%nonassoc UMINUS

15 %type <dval> expression
%%
statement_list: statement '\n'
               | statement_list statement '\n'
20 ;

statement: NAME '=' expression { vbltable[$1] = $3; }
          | expression          { printf("= %g\n", $1); }
          ;

25 expression: expression '+' expression { $$ = $1 + $3; }
             | expression '-' expression { $$ = $1 - $3; }
             | expression '*' expression { $$ = $1 * $3; }
             | expression '/' expression
30             { if($3 == 0.0)
                  yyerror("divide by zero");
                  else
                      $$ = $1 / $3;
                  }
             | '-' expression %prec UMINUS { $$ = -$2; }
35             | '(' expression ')' { $$ = $2; }
             | NUMBER
             | NAME { $$ = vbltable[$1]; }
             ;

40 %%
unsigned offset = 0;
char **arglim;
char **targv;
char *pt[] = {"1+4\n", "2+4\n", "1-5\n", "1+5\n"};

45 void yyerror(char *msg)
{
    printf("%s\n", msg);
}

```

```
        exit(0);
50  }

void main(void)
{
    targv = pt;
55  arglim = targv+4;

    yyparse();
}
```

Hello, a+3 produces 10