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#include <lex.h>

#define YLEXFAST
#line 1 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.1"

/*
Vahe Karamian - CS 440 - Project 1
Filename: project1.1, project1.h, project1.c
*/

#include <stdio.h>
#include <math.h>

/* this function I use for my symbol table */
void SymbolTable( char* id );

/* global index variable used by the symbol table */
int vk_index = 0;

/* symbol table data structure */
char **symbolTable[100];

/* declare enum for the keywords and etc... */
enum{IF=10001,ELSE,WHILE,BREAK,RETURN,VOID,INT};
enum{ADDOP=20001,SUBOP,MULOP,DIVOP};
enum{LTOP=30001,GTOP,EQOP,LEOP,GEOP,NEOP,ASOP};
enum{SEMI=40001,COMA};
enum{LPAREN=50001,RPAREN,LBRACE,RBRACE,LBRAKT,RBRAKT};

#line 32 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
/* repeated because of possible precompiled header */
#include <lex.h>

#define YLEXFAST
#include "test.h"

#ifndef YYTEXT_SIZE
#define YYTEXT_SIZE 100
#endif
#ifndef YYUNPUT_SIZE
#define YYUNPUT_SIZE YYTEXT_SIZE
#endif

/* yytext */
static char YYNEAR yysatext[(YYTEXT_SIZE) + 1]; /* extra char for \0 */
char YYFAR *YYNEAR YYDCDECL yystext = yysatext;
char YYFAR *YYNEAR YYDCDECL yytext = yysatext;
int YYNEAR YYDCDECL yystext_size = (YYTEXT_SIZE);
int YYNEAR YYDCDECL yytext_size = (YYTEXT_SIZE);

/* yystatebuf */
#if (YYTEXT_SIZE) != 0
static int YYNEAR yysastatebuf[(YYTEXT_SIZE)];
int YYFAR *YYNEAR YYDCDECL yysstatebuf = yysastatebuf;
int YYFAR *YYNEAR YYDCDECL yystatebuf = yysastatebuf;
#else
int YYFAR *YYNEAR YYDCDECL yysstatebuf = NULL;
int YYFAR *YYNEAR YYDCDECL yystatebuf = NULL;
#endif

/* yyunputbuf */
#if (YYUNPUT_SIZE) != 0
static int YYNEAR yysaunputbuf[(YYUNPUT_SIZE)];
int YYFAR *YYNEAR YYDCDECL yysunputbufptr = yysaunputbuf;
int YYFAR *YYNEAR YYDCDECL yyunputbufptr = yysaunputbuf;
#else
int YYFAR *YYNEAR YYDCDECL yysunputbufptr = NULL;
int YYFAR *YYNEAR YYDCDECL yyunputbufptr = NULL;
#endif
int YYNEAR YYDCDECL yysunput_size = (YYUNPUT_SIZE);
int YYNEAR YYDCDECL yyunput_size = (YYUNPUT_SIZE);

/* backwards compatability with lex */
#ifdef input
#ifdef YYPROTOTYPE
int YYDCDECL yyinput(void)
#else
int YYDCDECL yyinput()

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#endif
{
    return input();
}
#else
#define input yyinput
#endif

#ifdef output
#ifdef YYPROTOTYPE
void YCDECL yyoutput(int ch)
#else
void YCDECL yyoutput(ch)
int ch;
#endif
{
    output(ch);
}
#else
#define output yyoutput
#endif

#ifdef unput
#ifdef YYPROTOTYPE
void YCDECL yyunput(int ch)
#else
void YCDECL yyunput(ch)
int ch;
#endif
{
    unput(ch);
}
#else
#define unput yyunput
#endif

#ifdef YNBOBOLANDWARN
#ifdef __BORLANDC__
#pragma warn -rch /* <warning: unreachable code> off */
#endif
#endif

#ifdef YYPROTOTYPE
int YCDECL ylexaction(int action)
#else
int YCDECL ylexaction(action)
int action;
#endif
{
    yyreturnflg = 1;
    switch (action) {
        case 1:
            {
                #line 36 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.1"
                BEGIN COMMENT;
                #line 136 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
            }
            break;
        case 2:
            {
                #line 37 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.1"
                ;
                #line 143 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
            }
            break;
        case 3:
            {
                #line 39 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.1"
                BEGIN 0;
                #line 150 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
            }
            break;
        case 4:
            {
                #line 40 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.1"
                BEGIN 0;
                #line 157 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
            }
            break;
    }
}

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    case 5:
    {
#line 41 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.1"
;
#line 164 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
    }
    break;
    case 6:
    {
#line 42 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.1"
;
#line 171 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
    }
    break;
    case 7:
    {
#line 46 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.1"
printf("(t_if [%d])", IF );
#line 178 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
    }
    break;
    case 8:
    {
#line 47 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.1"
printf("(t_else [%d])", ELSE );
#line 185 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
    }
    break;
    case 9:
    {
#line 48 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.1"
printf("(t_while [%d])", WHILE );
#line 192 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
    }
    break;
    case 10:
    {
#line 49 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.1"
printf("(t_break [%d])", BREAK );
#line 199 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
    }
    break;
    case 11:
    {
#line 50 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.1"
printf("(t_return [%d])", RETURN );
#line 206 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
    }
    break;
    case 12:
    {
#line 51 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.1"
printf("(t_void [%d])", VOID );
#line 213 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
    }
    break;
    case 13:
    {
#line 52 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.1"
printf("(t_int [%d])", INT );
#line 220 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
    }
    break;
    case 14:
    {
#line 56 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.1"
printf("(t_ADD %d)", ADDOP );
#line 227 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
    }
    break;
    case 15:
    {
#line 57 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.1"
printf("(t_SUB %d)", SUBOP );
#line 234 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
    }
    break;
    case 16:
    {

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#line 58 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.1"
printf("(t_DIV %d)", DIVOP );
#line 241 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
}
break;
case 17:
{
#line 59 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.1"
printf("(t_MUL %d)", MULOP );
#line 248 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
}
break;
case 18:
{
#line 63 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.1"
printf("(t_LT %d)", LTOP );
#line 255 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
}
break;
case 19:
{
#line 64 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.1"
printf("(t_GT %d)", GTOP );
#line 262 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
}
break;
case 20:
{
#line 66 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.1"
printf("(t_EQ %d)", EQOP );
#line 269 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
}
break;
case 21:
{
#line 67 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.1"
printf("(t_LE %d)", LEOP );
#line 276 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
}
break;
case 22:
{
#line 68 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.1"
printf("(t_GE %d)", GEOP );
#line 283 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
}
break;
case 23:
{
#line 69 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.1"
printf("(t_NE %d)", NEOP );
#line 290 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
}
break;
case 24:
{
#line 71 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.1"
printf("(t_AS %d)", ASOP );
#line 297 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
}
break;
case 25:
{
#line 74 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.1"
printf("(t_semi %d)\n", SEMI );
#line 304 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
}
break;
case 26:
{
#line 75 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.1"
printf("(t_coma %d)", COMA );
#line 311 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
}
break;
case 27:
{
#line 77 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.1"
printf("(t_lparen %d)", LPAREN );

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#line 318 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
    }
    break;
case 28:
    {
#line 78 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.l"
printf("(t_rparen %d)", RPAREN );
#line 325 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
    }
    break;
case 29:
    {
#line 79 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.l"
printf("(t_lbrace %d)\n", LBRACE );
#line 332 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
    }
    break;
case 30:
    {
#line 80 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.l"
printf("(t_rbrace %d)\n", RBRACE );
#line 339 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
    }
    break;
case 31:
    {
#line 81 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.l"
printf("(t_lbrakt %d)", LBRAKT );
#line 346 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
    }
    break;
case 32:
    {
#line 82 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.l"
printf("(t_rbrakt %d)", RBRAKT );
#line 353 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
    }
    break;
case 33:
    {
#line 85 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.l"
printf("(t_num %s)", yytext );
#line 360 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
    }
    break;
case 34:
    {
#line 88 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.l"
printf("(t_float %s)", yytext );
#line 367 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
    }
    break;
case 35:
    {
#line 91 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.l"
SymbolTable( yytext );
#line 374 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
    }
    break;
case 36:
    {
#line 93 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.l"
;
#line 381 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
    }
    break;
case 37:
    {
#line 96 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.l"
printf("(nt_error: %s\n)", yytext );
#line 388 "H:\\documents\\Schools\\Cal Poly Pomona\\Computer Science\\Computer Science 440\\project1\\test.c"
    }
    break;
default:
    yyassert(0);
    break;
}
yyreturnflg = 0;
return 0;

```



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0,  
0  
};
```