#include <stdio.h>

#include <conio.h>

#include <malloc.h>

#include <string.h>

#include <math.h>

#include <ctype.h>

void main() {

int i = 0, j = 0, x = 0, n, flag = 0;

void \*p, \*add[15];

char ch, srch, b[15], d[15], c;

printf("expression terminated by $: ");

while ((c = getchar()) != '$')

b[i++] = c;

n = i - 1;

printf("given expression: ");

for (i = 0; i <= n; i++)

printf("%c", b[i]);

printf("\nSymbol Table:\n");

while (j <= n) {

c = b[j];

if (isalpha(tolower(c))) {

if (j < n)

p = malloc(sizeof(c));

add[x] = p;

d[x++] = c;

printf("%c\t%d\tidentifier\n", c, p);

} else {

ch = b[j] + b[j + 1];

if (ch == '+' || ch == '-' || ch == '\*' || ch == '/') {

p = malloc(sizeof(c));

add[x] = p;

d[x++] = ch;

printf("%c\t%d\tidentifier\n", ch, p);

j++;

}

}

j++;

}

printf("Enter the symbol to be searched: ");

srch = getch();

for (i = 0; i < x; i++) {

if (d[i] == srch) {

printf("\nSymbol found in: %c at address %d\n", srch, add[i]);

flag = 1;

}

}

if (flag == 0)

printf("Symbol not found\n");

getch();

}

