FILE\* fp;

fp = fopen("digit1.c", "r");

char c,buf[20];

c = fgetc(fp);

int colNumber=0;

int rowNumber=1;

while(c!=EOF)

{

if(c=='\n')

{

rowNumber++;

colNumber=0;

c=fgetc(fp);

continue;

}

colNumber++;

int i=0;

buf[0]='\0';

if(c=='=')

{

buf[i++]=c;

c = fgetc(fp);

if(c=='=')

{

colNumber++;

buf[i++]=c;

buf[i]='\0';

strcpy(a.token\_name,buf);

a.row = rowNumber;

a.col = colNumber;

printf("\n <%s,%d,%d>",a.token\_name,a.row,a.col);

}

else

{

buf[i]='\0';

strcpy(a.token\_name,buf);

a.row = rowNumber;

a.col = colNumber;

printf("\n <%s,%d,%d>",a.token\_name,a.row,a.col);

}

}

else

{

if(c=='<'||c=='>'||c=='!')

{

buf[i++]=c;

c = fgetc(fp);

if(c=='=')

{

buf[i++]=c;

colNumber++;

buf[i]='\0';

strcpy(a.token\_name,buf);

a.row = rowNumber;

a.col = colNumber;

printf("\n <%s,%d,%d>",a.token\_name,a.row,a.col);

}

buf[i]='\0';

strcpy(a.token\_name,buf);

a.row = rowNumber;

a.col = colNumber;

printf("\n <%s,%d,%d>",a.token\_name,a.row,a.col);

}

else if(c=='&')

{

buf[i++]=c;

c = fgetc(fp);

if(c=='&')

{

buf[i++]=c;

colNumber++;

buf[i]='\0';

strcpy(a.token\_name,buf);

a.row = rowNumber;

a.col = colNumber;

printf("\n <%s,%d,%d>",a.token\_name,a.row,a.col);

}

}

else if(c=='|')

{

buf[i++]=c;

c = fgetc(fp);

if(c=='|')

{

buf[i++]=c;

colNumber++;

buf[i]='\0';

strcpy(a.token\_name,buf);

a.row = rowNumber;

a.col = colNumber;

printf("\n <%s,%d,%d>",a.token\_name,a.row,a.col);

}

else

{

buf[i]='\0';

strcpy(a.token\_name,buf);

a.row = rowNumber;

a.col = colNumber;

printf("\n <%s,%d,%d>",a.token\_name,a.row,a.col);

}

}

else if(c=='+' || c=='-' || c=='/' || c=='\*' || c=='%')

{

buf[i++]=c;

c = fgetc(fp);

if(c=='=')

{

buf[i++]=c;

colNumber++;

buf[i]='\0';

strcpy(a.token\_name,buf);

a.row = rowNumber;

a.col = colNumber;

printf("\n <%s,%d,%d>",a.token\_name,a.row,a.col);

}

else

{

switch(buf[i-1])

{

case '+': if(c=='+')

buf[i++]=c;

break;

case '-': if(c=='-')

buf[i++]=c;

break;

}

buf[i]='\0';

strcpy(a.token\_name,buf);

a.row = rowNumber;

a.col = colNumber;

printf("\n <%s,%d,%d>",a.token\_name,a.row,a.col);

}

}

else if(c=='-')

{

buf[i++]=c;

c = fgetc(fp);

if(c=='-' || c=='=')

{

buf[i++]=c;

colNumber++;

buf[i]='\0';

strcpy(a.token\_name,buf);

a.row = rowNumber;

a.col = colNumber;

printf("\n <%s,%d,%d>",a.token\_name,a.row,a.col);

}

else

{

buf[i]='\0';

strcpy(a.token\_name,buf);

a.row = rowNumber;

a.col = colNumber;

printf("\n <%s,%d,%d>",a.token\_name,a.row,a.col);

}

}

else if(c=='\*')

{

buf[i++]=c;

c = fgetc(fp);

if(c=='=')

{

buf[i++]=c;

colNumber++;

buf[i]='\0';

strcpy(a.token\_name,buf);

a.row = rowNumber;

a.col = colNumber;

printf("\n <%s,%d,%d>",a.token\_name,a.row,a.col);

}

else

{

buf[i]='\0';

strcpy(a.token\_name,buf);

a.row = rowNumber;

a.col = colNumber;

printf("\n <%s,%d,%d>",a.token\_name,a.row,a.col);

}

}

else if(c=='/')

{

buf[i++]=c;

c = fgetc(fp);

if(c=='=')

{

buf[i++]=c;

colNumber++;

buf[i]='\0';

strcpy(a.token\_name,buf);

a.row = rowNumber;

a.col = colNumber;

printf("\n <%s,%d,%d>",a.token\_name,a.row,a.col);

}

else

{

buf[i]='\0';

strcpy(a.token\_name,buf);

a.row = rowNumber;

a.col = colNumber;

printf("\n <%s,%d,%d>",a.token\_name,a.row,a.col);

}

}

else if(c=='%')

{

buf[i++]=c;

c = fgetc(fp);

if(c=='=')

{

buf[i++]=c;

colNumber++;

buf[i]='\0';

strcpy(a.token\_name,buf);

a.row = rowNumber;

a.col = colNumber;

printf("\n <%s,%d,%d>",a.token\_name,a.row,a.col);

}

else

{

buf[i]='\0';

strcpy(a.token\_name,buf);

a.row = rowNumber;

a.col = colNumber;

printf("\n <%s,%d,%d>",a.token\_name,a.row,a.col);

}

}

else if(c=='{' || c=='}' || c=='(' || c==')' || c=='[' || c==']' || c==';')

{

buf[i++]=c;

buf[i]='\0';

strcpy(a.token\_name,buf);

a.row = rowNumber;

a.col = colNumber;

printf("\n <%s,%d,%d>",a.token\_name,a.row,a.col);

}

else if(isdigit(c)){

while(isdigit(c)){

buf[i++]=c;

c=fgetc(fp);

}

colNumber++;

buf[i]='\0';

strcpy(a.token\_name,buf);

a.row = rowNumber;

a.col = colNumber;

printf("\n <%s,%d,%d>",a.token\_name,a.row,a.col);

i++;

buf[i]=c;

continue;

}

else if(c=='\"'){

buf[i++]=c;

c=fgetc(fp);

while(c!='\"'){

buf[i++]=c;

c=fgetc(fp);

}

buf[i++]=c;

colNumber++;

buf[i]='\0';

strcpy(a.token\_name,buf);

a.row = rowNumber;

a.col = colNumber;

printf("\n <%s,%d,%d>",a.token\_name,a.row,a.col);

}

else if(isalpha(c) != 0)

{

buf[i++]=c;

while(isalpha(c) != 0){

c = fgetc(fp);

if(isalpha(c) != 0)

{

buf[i++] = c;

colNumber++;

}

}

buf[i]='\0';

if(compare(buf) == 1){

strcpy(a.token\_name,buf);

a.row = rowNumber;

a.col = colNumber;

printf("\n <%s,%d,%d>",a.token\_name,a.row,a.col);

}

else if(strcmp("main",buf)==0)

{

strcpy(a.token\_name,buf);

a.row = rowNumber;

a.col = colNumber;

printf("\n <%s,%d,%d>",a.token\_name,a.row,a.col);

}

else{

while(isalpha(c)!=0 || c=='\_' || isdigit(c))

{

buf[i++]=c;

c=fgetc(fp);

}

strcpy(a.token\_name,buf);

a.row = rowNumber;

a.col = colNumber;

printf("\n <%s,%d,%d>",a.token\_name,a.row,a.col);

}

buf[i++]=c;

continue;

}

else if(c=='\_')

{

while(isalpha(c)!=0 || c=='\_' || isdigit(c))

{

buf[i++]=c;

c=fgetc(fp);

}

buf[i]='\0';

strcpy(a.token\_name,buf);

a.row = rowNumber;

a.col = colNumber;

printf("\n <%s,%d,%d>",a.token\_name,a.row,a.col);

buf[++i]=c;

continue;

}

}

c = fgetc(fp);

}

fclose(fp);