#include <stdio.h>

#include <conio.h>

int broi\_red(FILE \*fin);

int broi\_else(FILE \*fin);

int broi\_operat(FILE \*fin);

int main()

{

char finname[500];

FILE \*fin;

int check=0;

char ch;

printf("PROGRAMA NAMIRA6TA BROQ NA KOMENTARITE I BROQ NA OPERATORITE ZA CIKUL\n");

do

{

printf ("1. Zadavane na direktorii\n");

printf ("2. Broq na redovete\n");

printf ("3. Broq na if-ovete\n");

printf ("4. Quit \n");

printf ("Make your choise: ");

fflush(stdin);

ch=getche();

switch(ch)

{

case '1':

check=1;

do{

printf("\nVuvedete vxoden fail s !!!!KOREKTNO NAPISANA C PROGRAMA!!!!: ");

scanf("%s",&finname);

fin=fopen(finname,"r");

if(fin==NULL)

{

printf("\nGre6ka pri otvarqne na faila\n");

}

}while(fin==NULL);

break;

case '2':

if(check)

{

printf("\n\n\nBroq na redovete e %d\n\n\n\n",broi\_red(fin));

}

else

{

printf("Zapo4ni ot opciq 1!!!");

}

break;

case '3':

if(check)

{

printf("\n\n\nBroq na vsi4ki if e %d\n if-else - %d\n samo if - %d\n\n\n",broi\_operat(fin),broi\_else(fin),broi\_operat(fin)-broi\_else(fin));

}

else

{

printf("Zapo4ni ot opciq 1!!!");

}

break;

}

if ((ch!='1')&&(ch!='2')&&(ch!='3')&&(ch!='4'))

{

printf("\n\nWrong option.Try again!\n\n");

}

}while (ch!='4');

return 0;

}

int broi\_red(FILE \*fin)

{

int broi=0,ch;

rewind(fin);

while((ch=fgetc(fin))!=EOF)

{

if(ch=='\n')

{

broi++;

}

}

broi++;

return broi;

}

int broi\_operat(FILE \*fin)

{

int operat=0;

int state=0;

int c1=0,c2=0,ch,f=0;

rewind(fin);

while((ch=fgetc(fin))!=EOF)

{

if(ch=='i')

{

ch=fgetc(fin);

if(ch=='f')

{

do{

ch=fgetc(fin);

if(ch==' '||ch=='\n'||ch=='\t'||ch=='\v')

{

state=0;

}

else

{

if(ch=='(')

{

break;

}

state=1;

break;

}

}while(1);

if(state==0)

{

operat++;

}

else

{

state=0;

}

continue;

}

}

if(ch=='\"')

{

for(;;)

{

ch=fgetc(fin);

if(ch=='\\')

{

ch=fgetc(fin);

if(ch=='\"') continue;

}

if(ch=='\"') break;

if(ch=='\n') break;

}

}

if((c1==1)&&(ch=='\*'))

{

for(;;)

{

ch=fgetc(fin);

if(ch=='\*')

{

f=1;

continue;

}

if((f==1)&&(ch=='/'))

{

c1=0;

f=0;

c2=0;

break;

}

else

{

f=0;

}

if(ch==EOF)

{

break;

}

}

continue;

}

else

{

c1=0;

}

if((c2==1)&&(ch=='/'))

{

c2=0;

c1=0;

do{

ch=fgetc(fin);

if(ch==EOF) break;

}while(ch!='\n');

continue;

}

else

{

c2=0;

}

if(ch=='/')

{

c1=1;

c2=1;

}

}

return operat;

}

int broi\_else(FILE \*fin)

{

int operat=0;

int state=0;

int c1=0,c2=0,ch,f=0;

rewind(fin);

while((ch=fgetc(fin))!=EOF)

{

if(ch=='e')

{

ch=fgetc(fin);

if(ch=='l')

{

ch=fgetc(fin);

if(ch=='s')

{

ch=fgetc(fin);

if(ch=='e')

{

do{

ch=fgetc(fin);

if(ch==' '||ch=='\n'||ch=='\t'||ch=='\v')

{

state=0;

}

else

{

if(ch=='{')

{

break;

}

state=1;

break;

}

}while(1);

if(state==0)

{

operat++;

}

else

{

state=0;

}

continue;

}

}

}

}

if(ch=='\"')

{

for(;;)

{

ch=fgetc(fin);

if(ch=='\\')

{

ch=fgetc(fin);

if(ch=='\"') continue;

}

if(ch=='\"') break;

if(ch=='\n') break;

}

}

if((c1==1)&&(ch=='\*'))

{

for(;;)

{

ch=fgetc(fin);

if(ch=='\*')

{

f=1;

continue;

}

if((f==1)&&(ch=='/'))

{

c1=0;

f=0;

c2=0;

break;

}

else

{

f=0;

}

if(ch==EOF)

{

break;

}

}

continue;

}

else

{

c1=0;

}

if((c2==1)&&(ch=='/'))

{

c2=0;

c1=0;

do{

ch=fgetc(fin);

if(ch==EOF) break;

}while(ch!='\n');

continue;

}

else

{

c2=0;

}

if(ch=='/')

{

c1=1;

c2=1;

}

}

return operat;

}