#include <stdio.h>

#include <conio.h>

int broi\_coment2();

int broi\_coment();

int broi\_while();

void failove();

int broi\_operat();

FILE \*fin,\*fout;

main()

{

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. KOMENTARI:Ot fail vuv fail\n");

printf ("3. KOMENTARI:Ot fail na ekrana\n");

printf ("4. KOMENTARI:Ot klaviaturata vuv fail\n");

printf ("5. KOMENTARI:Ot klaviaturata na ekrana\n");

printf ("6. OPERATORI:Ot fail vuv fail\n");

printf ("7. OPERATORI:Ot fail na ekrana\n");

printf ("8. Quit \n");

printf ("Make your choise: ");

ch=getche();

switch(ch)

{

case '1':

check=1;

failove();

break;

case '2':

if(check)

{

if(fout!=NULL)

{

fprintf(fout,"\nBroq na komentarite e %d\n",broi\_coment());

printf("\n\nOtvori output faila\n\n");

}

else

{

printf("\n\nVUVEDETE output fail v opciq 1\n\n");

}

break;

}

else

{

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

break;

}

case '3':

if(check)

{

printf("\n\nBroq na komentarite e %d\n\n",broi\_coment());

break;

}

else

{

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

break;

}

case '4':

if(check)

{

if(fout!=NULL)

{

fprintf(fout,"\nBroq na komentarite e %d\n",broi\_coment2());

printf("\nOtvori output faila\n\n");

}

else

{

printf("\n\nVUVEDETE output fail v opciq 1\n\n");

}

break;

}

else

{

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

break;

}

case '5':

if(check)

{

printf("\nBroqt na komentarite e %d\n\n",broi\_coment2());

break;

}

else

{

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

break;

}

case '6':

if(check)

{

if(fout!=NULL)

{

fprintf(fout,"\nBroq na OPERATORITE ZA CIKUL FOR i DO e %d\n",broi\_operat());

printf("\n\nOtvori output faila\n\n");

}

else

{

printf("\n\nVUVEDETE output fail v opciq 1\n\n");

}

break;

}

else

{

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

break;

}

case '7':

if(check)

{

printf("\n\nBroq na OPERATORITE za cikul FOR i DO e %d\n\n",(broi\_operat() + broi\_while()));

break;

}

else

{

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

break;

}

case '8':

if(fin!=NULL)

{

fclose(fin);

}

if(fout!=NULL)

{

fclose(fout);

}

}

if ((ch!='1')&&(ch!='2')&&(ch!='3')&&(ch!='4')&&(ch!='5')&&(ch!='6')&&(ch!='7')&&(ch!='8'))

{

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

}

}while (ch!='8');

}

int broi\_coment()

{

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

rewind(fin);

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

{

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=='/'))

{

comen++;

c1=0;

f=0;

c2=0;

break;

}

else

{

f=0;

}

if(ch==EOF)

{

comen++;

break;

}

}

continue;

}

else

{

c1=0;

}

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

{

comen++;

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 comen;

}

int broi\_coment2()

{

int comen=0,f=0,i=0,br;

int c1=0,c2=0; //klu4eta

char \*p, str[10000];

fflush(stdin);

printf("\nKolko simvola 6te ima va6ata programa (max 10000): ");

scanf("%d",&br);

printf("\nNapi6ete programa ot %d simvola i ne se opitvaite da triete\n",br);

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

{

str[i]=getche();

if(str[i]=='\r')

{

printf("\n");

}

}

p=str;

for(;\*p;p++)

{

if((\*p)=='\"')

{

for(;;)

{

p++;

if((\*p)=='\\')

{

p++;

if((\*p)=='\"') continue;

}

if((\*p)=='\"') break;

if((\*p)=='\r') break;

}

}

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

{

for(;;)

{

p++;

if((\*p)=='\*')

{

f=1;

continue;

}

if((f==1)&&((\*p)=='/'))

{

comen++;

c1=0;

f=0;

c2=0;

break;

}

else

{

f=0;

}

if((\*p)=='\0')

{

comen++;

break;

}

}

continue;

}

else

{

c1=0;

}

if((c2==1)&&((\*p)=='/'))

{

comen++;

c2=0;

do{

p++;

if(\*p=='\0') break;

}while(\*p!='\r');

continue;

}

else

{

c2=0;

}

if((\*p)=='/')

{

c1=1;

c2=1;

}

}

return comen;

}

void failove()

{

char cj;

char finname[500],foutname[500];

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);

printf("6Te izpolzvate li fail za zapis ?? (Y or something else)");

fflush(stdin);

cj=getche();

if(cj=='y'||cj=='Y')

{

printf("Enter output filelocation: ");

scanf("%s",&foutname);

fout=fopen(foutname,"a+");

}

}

int broi\_operat()

{

int operat=0;

int state=0;

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

rewind(fin);

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

{

if(ch=='f')

{

ch=fgetc(fin);

if(ch=='o')

{

ch=fgetc(fin);

if(ch=='r')

{

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=='d')

{

ch=fgetc(fin);

if(ch=='o')

{

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\_while()//broi na while-ovete otdelno

{

int operat=0;

int state=0;

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

rewind(fin);

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

{

if(ch=='w')

{

ch=fgetc(fin);

if(ch=='h')

{

ch=fgetc(fin);

if(ch=='i')

{

ch=fgetc(fin);

if(ch=='l')

{

ch=fgetc(fin);

if(ch=='e')

{

do{

ch=fgetc(fin);

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

{

state=0;

}

else

{

if(ch=='(')

{

do{

ch=fgetc(fin);

if(ch==';')

{

state=1;

break;

}

if(ch=='{')

{

break;

}

}while(1);

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;

}