#include <stdio.h>

#include <conio.h>

int broi\_coment2();

int broi\_coment();

int broi\_ident();

int broi\_ident2();

void failove();

FILE \*fin,\*fout;

main()

{

int check=0;

char ch;

printf("PROGRAMA NAMIRA6TA BROQ NA ZNA4E6TITE SIMVOLI KOMENTARITE I BROQ NA SIMVOLITE V IDENTIFIKATORITE\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. INDENTIFIKATORI: Ot fail vuv fail\n");

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

printf ("8. INDENTIFIKATORI: Ot klaviaturata vuv fail\n");

printf ("9. INDENTIFIKATORI: Ot klaviaturata na ekrana\n");

printf ("0. Quit \n");

printf ("Make your choise: ");

fflush(stdin);

ch=getche();

switch(ch)

{

case '1':

check=1;

failove();

break;

case '2':

if(check)

{

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

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

break;

}

else

{

printf("\n\nZapo4ni ot opciq 1!!!\n\n");

break;

}

case '3':

if(check)

{

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

break;

}

else

{

printf("\n\nZapo4ni ot opciq 1!!!\n\n");

break;

}

case '4':

if(check)

{

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

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

break;

}

else

{

printf("\n\nZapo4ni ot opciq 1!!!\n\n");

break;

}

case '5':

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

break;

case '6':

if(check)

{

fprintf(fout,"\nBroqt na simvolite v identifikatorite e %d\n\n",broi\_ident());

break;

}

else

{

printf("\n\nZapo4ni ot opciq 1!!!\n\n");

break;

}

case '7':

if(check)

{

printf("\nBroqt na simvolite v identifikatorite e %d\n\n",broi\_ident());

break;

}

else

{

printf("\n\nZapo4ni ot opciq 1!!!\n\n");

break;

}

case '8':

if(check)

{

fprintf(fout,"\nBroqt na simvolite v identifikatorite e %d\n\n",broi\_ident2());

break;

}

else

{

printf("\n\nZapo4ni ot opciq 1!!!\n\n");

break;

}

case '9':

printf("\nBroqt na simvolite v identifikatorite e %d\n\n",broi\_ident2());

break;

case '0':

printf("\n\n");

if(check)

{

fclose(fin);

}

if(fout!=NULL)

{

fclose(fout);

}

break;

}

if((ch!='1')&&(ch!='2')&&(ch!='3')&&(ch!='4')&&(ch!='5')&&(ch!='6')&&(ch!='7')&&(ch!='8')&&(ch!='9')&&(ch!='0'))

{

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

}

}while (ch!='0');

}

int broi\_coment()

{

int c1=0,c2=0,ch,f=0,tekst=0,simvoli=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( ch==EOF) break;

}

}

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

{

for(;;)

{

ch=fgetc(fin);

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

if(ch=='\*')

{

f=1;

tekst++;

continue;

}

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

{

c1=0;

f=0;

c2=0;

tekst--;

break;

}

else

{

tekst++;

f=0;

}

if(ch==EOF)

{

break;

}

}

continue;

}

else

{

c1=0;

}

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

{

tekst++;

tekst++;

c2=0;

do{

ch=fgetc(fin);

if((ch!=' ')&&(ch!='\n')&&(ch!='\t')&&(ch!='\v')) tekst++;

if(ch==EOF) break;

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

continue;

}

else

{

c2=0;

}

if(ch=='/')

{

c1=1;

c2=1;

}

}

return tekst;

}

int broi\_coment2()

{

int tekst=0,f=0,i=0,br,simvoli=0;

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

char \*p, str[100000];

fflush(stdin);

printf("\nKolko simvola 6te ima va6ata programa (max 100000): ");

scanf("%d",&br);

printf("\nNapi6ete programa ot %d znaka 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((\*p)=='\0') break;

}

}

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

{

for(;;)

{

p++;

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

{

break;

}

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

{

f=1;

tekst++;

continue;

}

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

{

c1=0;

f=0;

c2=0;

tekst--;

break;

}

else

{

tekst++;

f=0;

}

if(\*p==' '||\*p=='\r'||\*p=='\t'||\*p=='\v') tekst--;

}

continue;

}

else

{

c1=0;

}

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

{

tekst=tekst+2;

c2=0;

do{

p++;

if((\*p!=' ')&&(\*p!='\r')&&(\*p=='\t')&&(\*p=='\v')) tekst++;

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

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

continue;

}

else

{

c2=0;

}

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

{

c1=1;

c2=1;

}

}

return tekst;

}

void failove()

{

char ch;

char finname[500],foutname[500];

do{

printf("\nEnter input filelocation: ");

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 izxod?(Y or something else) ");

fflush(stdin);

ch=getche();

printf("\n\n");

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

{

printf("Enter output filelocation: ");

scanf("%s",&foutname);

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

}

}

int broi\_ident()

{

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

rewind(fin);

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

{

if((ch=='\_')||((ch>='a')&&(ch<='z'))||((ch>='A')&&(ch<='Z')))

{

for(;;)

{

ident++;

ch=fgetc(fin);

if((ch!='\_')&&!(ch>='a'&&ch<='z')&&!(ch>='A'&&ch<='Z')&&!(ch>='0'&&ch<='9'))

{

break;

}

}

}

if(ch=='\"')

{

for(;;)

{

ch=fgetc(fin);

if(ch=='\\')

{

ch=fgetc(fin);

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

}

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

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

if( ch==EOF) 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;

do{

ch=fgetc(fin);

if(ch==EOF) break;

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

continue;

}

else

{

c2=0;

}

if(ch=='/')

{

c1=1;

c2=1;

}

}

return ident;

}

int broi\_ident2()

{

int i,ident=0,br,c1=0,c2=0,f=0;

char str[100000],\*p;

printf("\nKolko simvola 6te ima va6ata programa (max 100000): ");

scanf("%d",&br);

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

fflush(stdin);

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

{

str[i]=getche();

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

{

printf("\n");

}

}

for(p=str;\*p;p++)

{

if((\*p=='\_')||((\*p>='a')&&(\*p<='z'))||((\*p>='A')&&(\*p<='Z')))

{

for(;;)

{

ident++;

p++;

if((\*p!='\_')&&!(\*p>='a'&&\*p<='z')&&!(\*p>='A'&&\*p<='Z')&&!(\*p>='0'&&\*p<='9'))

{

break;

}

}

}

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

{

for(;;)

{

p++;

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

{

p++;

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

}

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

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

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

}

}

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

{

for(;;)

{

p++;

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

{

f=1;

continue;

}

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

{

c1=0;

f=0;

c2=0;

break;

}

else

{

f=0;

}

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

{

break;

}

}

continue;

}

else

{

c1=0;

}

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

{

c2=0;

do{

p++;

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

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

continue;

}

else

{

c2=0;

}

if(\*p=='/')

{

c1=1;

c2=1;

}

}

return ident;

}