#include<stdio.h>

#include<conio.h>

#include<string.h>

void file\_open();

void bukvi();

void broi\_redove();

void komentari();

FILE \*fin;

main()

{

int a=0;

char ch;

do

{

printf ("\n1. Zadavane na mestopolojenie i ime na fail\n");

printf ("2. Namirane na broq na redovete.\n");

printf ("3. Otno6enieto na malki/glavni bukvi v programen red kum ob6t broi malki/glavni bukvi v programata\n");

printf ("4. Broq na komentarite po golemi ot edin red \n");

printf ("5. Quit.\n");

printf ("Make your choise: ");

ch=getche();

switch(ch)

{

case '1':

a=1;

file\_open();

break;

case '2':

if(!a)

{

printf("\n\n\nZapo4nete ot opciq 1!\n\n\n");

break;

}

broi\_redove();

break;

case '3':

if(!a)

{

printf("\n\n\nZapo4nete ot opciq 1!\n\n\n");

break;

}

bukvi();

break;

case '4':

if(!a)

{

printf("\n\n\nZapo4nete ot opciq 1!\n\n\n");

break;

}

komentari();

break;

}

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

{

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

}

}while(ch!='5');

if(fin!=NULL)

{

fclose(fin);

}

}

void broi\_redove()

{

char ch;

int broi=0;

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

{

if(ch=='\n')

{

broi++;

}

}

broi++;

printf("\n\nProgramata ima %d broq redove\n\n",broi);

}

void bukvi()

{

int i,broiredove=0,glavni=0,malki=0,malkiob6to=0,glavniob6to=0;

char ch;

rewind(fin);

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

{

if(ch=='\n')

{

broiredove++;

}

}

broiredove++;

rewind(fin);

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

{

if((ch>='a')&&(ch<='z'))

{

malkiob6to++;

}

}

rewind(fin);

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

{

if((ch>='A')&&(ch<='Z'))

{

glavniob6to++;

}

}

rewind(fin);

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

{

while((ch=fgetc(fin))!='\n')

{

if((ch>='a')&&(ch<='z'))

{

malki++;

}

if(ch==EOF)

{

break;

}

}

printf("\nOtno6enieto na malkite bukvi v red N%d kum ob6toq broi na malkite bukvi v programata e %d/%d\n",i+1,malki,malkiob6to);

malki=0;

}

rewind(fin);

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

{

while((ch=fgetc(fin))!='\n')

{

if((ch>='A')&&(ch<='Z'))

{

glavni++;

}

if(ch==EOF)

{

break;

}

}

printf("\nOtno6enieto na glavnite bukvi v red N%d kum ob6toq broi na glavnite bukvi v programata e %d/%d\n",i+1,glavni,glavniob6to);

glavni=0;

}

}

void file\_open()

{

int a,i,m;

char filename[500];

do{

m=0;

printf("\n\n\nVuvedete imeto na faila(ne se opitvaite da triete!!!): ");

fflush(stdin);

for(i=0;i<500;i++)

{

filename[i]=getche();

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

{

filename[i]='\0';

break;

}

}

a=strlen(filename);

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

{

if((filename[i]==' ')||(filename[i]=='~')||(filename[i]=='!')||(filename[i]=='@')||(filename[i]=='#')||(filename[i]=='$')||(filename[i]=='%')||(filename[i]=='^')||(filename[i]=='&')||(filename[i]=='\*')||(filename[i]=='(')||(filename[i]==')')||(filename[i]=='+'))

{

m=1;

printf("\n\nIma intervali ili specialni simvoli (~!@#$%^&\*()+) !!!\n\n");

break;

}

}

if(m==1)

{

continue;

}

fin=fopen(filename,"r");

if(fin==NULL)

{

printf("\nFILE EORROR\n");

m=1;

}

else

{

break;

}

}while(m==1);

}

void komentari()

{

int c1=0,c2=0,ch,f=0,broika=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=='\n')

{

broika++;

}

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;

}

}

printf("\n\nBroq na komentarite po dulag ot edin red e %d\n\n",broika);

}