#include<stdio.h>

#include<string.h>

#include<math.h>

#include<time.h>

int main ()

{

char str1[80];

char str2[200]="#include<stdio.h>\n#include<math.h>\n#include<time.h>\nint main ()\n{\n";

char str6[5]="(";

char str7[5]=")";

char str8[5]=";";

char str9[5]="[";

char str10[5]="]";

char str11[5]="{";

char str12[5]="}";

char str13[5]="\n";

int choice;

time\_t start,end;

start=time(NULL);

for (int i=0;i<100000000;i++);

end=time(NULL);

printf("\n\n您正在使用终端，请确保您已授权使用该软件，但在副产品未被注册的情况下均禁止作为商业用途。谢谢您的配合。\n\n");

start=time(NULL);

for (int i=0;i<200000000;i++);

end=time(NULL);

printf("快速合程（终端）\n\n");

start=time(NULL);

for (int i=0;i<100000000;i++);

end=time(NULL);

printf("您需要输入即将或已经部分开发的程序终端的文件名（以 .flprog 作为后缀名）：");

scanf("%s",&str1);

start=time(NULL);

for (int i=0;i<100000000;i++);

end=time(NULL);

FILE\*fp;

fp=fopen(str1,"a");

printf("\n\n1、继续开发\n2、新建的文件\n选择：");

scanf("%d",&choice);

if (choice==1)

{

start=time(NULL);

for (int i=0;i<100000000;i++);

end=time(NULL);

}

else

{

fprintf(fp,"%s",str2);

fclose(fp);

start=time(NULL);

for (int i=0;i<100000000;i++);

end=time(NULL);

}

while (1)

{

start=time(NULL);

for (int i=0;i<100000000;i++);

end=time(NULL);

printf("\n\n1.加入将在程序中运用的变量\n2.加入同类变量组\n3.获取变量的值\n4.获取字符串（字词句）\n5.显示获取了的或预先设定的字符串\n6.自定义并显示字词句\n7.算术运算表达式\n8.显示变量值\n9.循环结构\n10.选择结构\n11.判断结构\n12.时间延迟\n13.数据存储\n14.程序（段）结束\n15.嵌套在主程序内的程序段开始\n\n按照逻辑顺序选择（每次选择一项）：");

scanf("%d",&choice);

start=time(NULL);

for (int i=0;i<100000000;i++);

end=time(NULL);

if (choice==1)

{

while (1)

{

char str3[20];

int num;

int length;

char str4[20]="int ";

char str5[20]="float ";

char str6[20]="char str";

printf("\n\n变量的性质：\n1、整数\n2、分数（实数）\n3、字符串（字符）\n4、返回菜单\n选择：");

scanf("%d",&choice);

if(choice==1)

{

FILE\*fp;

fp=fopen(str1,"a");

fprintf(fp,"%s",str4);

printf("\n\n需要命名变量：");

scanf("%s",&str3);

fprintf(fp,"%s",str3);

fprintf(fp,"%s",str8);

fprintf(fp,"%s",str13);

fclose(fp);

printf("\n\n操作成功。\n\n");

}

else if (choice==2)

{

FILE\*fp;

fp=fopen(str1,"a");

fprintf(fp,"%s",str5);

printf("\n\n需要命名变量：");

scanf("%s",&str3);

fprintf(fp,"%s",str3);

fprintf(fp,"%s",str8);

fprintf(fp,"%s",str13);

fclose(fp);

printf("\n\n操作成功。\n\n");

}

else if (choice==3)

{

FILE\*fp;

fp=fopen(str1,"a");

fprintf(fp,"%s",str6);

printf("\n\n请输入变量的自定义编号:");

scanf("%d",&num);

fprintf(fp,"%d",num);

printf("\n\n请输入该变量占用的字节数量上限：");

scanf("%d",&length);

fprintf(fp,"%s",str9);

fprintf(fp,"%d",length);

fprintf(fp,"%s",str10);

fprintf(fp,"%s",str8);

fprintf(fp,"%s",str13);

fclose(fp);

printf("\n\n操作成功。\n\n");

}//字符串变量

else if (choice==4)

{break;}

}//内循环

}//变量加入

else if(choice==2)

{

while(1)

{

int sumofnum;

char str14[20];

char str15[10]="int ";

char str16[10]="float ";

printf("\n\n变量的性质：\n1、整数\n2、分数\n3、返回菜单\n选择：");

scanf("%d",&choice);

if (choice==1)

{

FILE\*fp;

fp=fopen(str1,"a");

printf("\n\n该数组中的变量有多少个？\n有");

scanf("%d",&sumofnum);

printf("\n\n为这一数组命名：");

scanf("%s",&str14);

fprintf(fp,"%s",str15);

fprintf(fp,"%s",str14);

fprintf(fp,"%s",str9);

fprintf(fp,"%d",sumofnum);

fprintf(fp,"%s",str10);

fprintf(fp,"%s",str8);

fprintf(fp,"%s",str13);

fclose(fp);

printf("\n\n操作成功。\n\n");

}//整数

else if (choice==2)

{

FILE\*fp;

fp=fopen(str1,"a");

printf("\n\n该数组中的变量有多少个？\n有");

scanf("%d",&sumofnum);

printf("\n\n为这一数组命名：");

scanf("%s",&str14);

fprintf(fp,"%s",str16);

fprintf(fp,"%s",str14);

fprintf(fp,"%s",str9);

fprintf(fp,"%d",sumofnum);

fprintf(fp,"%s",str10);

fprintf(fp,"%s",str8);

fprintf(fp,"%s",str13);

fclose(fp);

printf("\n\n操作成功。\n\n");

}//分数

else if (choice==3)

{break;}

}//内部循环

}//同类变量组

else if (choice==9)

{

printf("\n\n测试版本暂不支持该模块的进一步开发。\n\n");

}

else if (choice==10)

{

printf("\n\n测试版本暂不支持该模块的进一步开发。\n\n");

}

else if (choice==11)

{

printf("\n\n测试版本暂不支持该模块的进一步开发。\n\n");

}

else if (choice==14)

{

FILE\*fp;

fp=fopen(str1,"a");

fprintf(fp,"%s",str12);

fprintf(fp,"%s",str13);

fclose(fp);

printf("\n\n操作成功。\n\n");

}//程序结束

else if (choice==15)

{

FILE\*fp;

fp=fopen(str1,"a");

fprintf(fp,"%s",str11);

fprintf(fp,"%s",str13);

fclose(fp);

printf("\n\n操作成功。\n\n");

}//程序段开始

else if (choice==3)

{

char str16[20]="scanf";

char str17[5]="%d";

char str18[5]="%f";

char str19[5]="%s";

char str20[5]="&";

char b=',';

char str21[5]="str";

char a='"';

char str14[20];//变量名称

char str15[10];//变量类型

while(1)

{

printf("\n\n1、继续\n2、返回菜单\n选择：");

scanf("%d",&choice);

if(choice==2)

{break;}

else

{

printf("\n\n请输入要向用户获取的变量名称（必须已声明；若为文字型变量仅输入编号）：");

scanf("%s",&str14);

printf("\n\n请输入变量类型\n1.整数\n2.分数\n3.文字\n\n选择：");

scanf("%d",&choice);

if (choice==1)

{

FILE\*fp;

fp=fopen(str1,"a");

fprintf(fp,"%s",str16);

fprintf(fp,"%s",str6);

fprintf(fp,"%c",a);

fprintf(fp,"%s",str17);

fprintf(fp,"%c",a);

fprintf(fp,"%c",b);

fprintf(fp,"%s",str20);

fprintf(fp,"%s",str14);

fprintf(fp,"%s",str7);

fprintf(fp,"%s",str8);

fprintf(fp,"%s",str13);

fclose(fp);

printf("\n\n操作成功。\n\n");

}//整数

else if (choice==2)

{

FILE\*fp;

fp=fopen(str1,"a");

fprintf(fp,"%s",str16);

fprintf(fp,"%s",str6);

fprintf(fp,"%c",a);

fprintf(fp,"%s",str18);

fprintf(fp,"%c",a);

fprintf(fp,"%c",b);

fprintf(fp,"%s",str20);

fprintf(fp,"%s",str14);

fprintf(fp,"%s",str7);

fprintf(fp,"%s",str8);

fprintf(fp,"%s",str13);

fclose(fp);

printf("\n\n操作成功。\n\n");

}//小数

else if (choice==3)

{

FILE\*fp;

fp=fopen(str1,"a");

fprintf(fp,"%s",str16);

fprintf(fp,"%s",str6);

fprintf(fp,"%c",a);

fprintf(fp,"%s",str19);

fprintf(fp,"%c",a);

fprintf(fp,"%c",b);

fprintf(fp,"%s",str20);

fprintf(fp,"%s",str21);

fprintf(fp,"%s",str14);

fprintf(fp,"%s",str7);

fprintf(fp,"%s",str8);

fprintf(fp,"%s",str13);

fclose(fp);

printf("\n\n操作成功。\n\n");

}//字符串

}//choice=1

}//内循环

}//获取变量的值;

else if (choice==4)

{

char str16[10];

char str14[10]="gets";

char str15[10]="str";

printf("\n\n请输入字符型变量的编号（必须已声明）：");

scanf("%s",&str16);

FILE\*fp;

fp=fopen(str1,"a");

fprintf(fp,"%s",str14);

fprintf(fp,"%s",str6);

fprintf(fp,"%s",str15);

fprintf(fp,"%s",str16);

fprintf(fp,"%s",str7);

fprintf(fp,"%s",str8);

fprintf(fp,"%s",str13);

fclose(fp);

printf("\n\n操作成功。\n\n");

}//获取字符串

else if (choice==5)

{

char str16[10];

char str14[10]="puts";

char str15[10]="str";

printf("\n\n请输入字符型变量的编号（必须已声明）：");

scanf("%s",&str16);

FILE\*fp;

fp=fopen(str1,"a");

fprintf(fp,"%s",str14);

fprintf(fp,"%s",str6);

fprintf(fp,"%s",str15);

fprintf(fp,"%s",str16);

fprintf(fp,"%s",str7);

fprintf(fp,"%s",str8);

fprintf(fp,"%s",str13);

fclose(fp);

printf("\n\n操作成功。\n\n");

}//显示字符串

else if (choice==6)

{

char str14[500];

char str15[20]="printf";

char a='"';

printf("\n\n请输入需要输出显示的字词句：");

scanf("%s",&str14);

FILE\*fp;

fp=fopen(str1,"a");

fprintf(fp,"%s",str15);

fprintf(fp,"%s",str6);

fprintf(fp,"%c",a);

fprintf(fp,"%s",str14);

fprintf(fp,"%c",a);

fprintf(fp,"%s",str7);

fprintf(fp,"%s",str8);

fprintf(fp,"%s",str13);

fclose(fp);

printf("\n\n操作成功。\n\n");

}//显示字词句

else if (choice==7)

{

char str14[200];

printf("\n\n请输入运算表达式，形如a=b+c；乘号为\*，除号为/，取余为%，开根号为sqrt()，幂使用pow(底数变量,指数变量):");

scanf("%s",&str14);

FILE\*fp;

fp=fopen(str1,"a");

fprintf(fp,"%s",str14);

fprintf(fp,"%s",str8);

fprintf(fp,"%s",str13);

fclose(fp);

printf("\n\n操作成功。\n\n");

}//运算

else if (choice==8)

{

while(1)

{

int follow;

char str14[10]="printf";

char str15[5]=",";

char a='"';

char str17[5]="%d";

char str20[5]="%";

char str21[5]=".";

char str18[5]="f";

char str19[5]="%s";

char str22[20];

char str23[10]="str";

printf("\n\n你需要选择输出的变量类型\n1、整数\n2、分数\n3、字符串\n4.返回菜单\n选择：");

scanf("%d",&choice);

if (choice==1)

{

FILE\*fp;

fp=fopen(str1,"a");

printf("\n\n请输入变量名（必须已声明）：");

scanf("%s",&str22);

fprintf(fp,"%s",str14);

fprintf(fp,"%s",str6);

fprintf(fp,"%c",a);

fprintf(fp,"%s",str17);

fprintf(fp,"%c",a);

fprintf(fp,"%s",str15);

fprintf(fp,"%s",str22);

fprintf(fp,"%s",str7);

fprintf(fp,"%s",str8);

fprintf(fp,"%s",str13);

fclose(fp);

printf("\n\n操作成功。\n\n");

}//整数

if (choice==2)

{

FILE\*fp;

fp=fopen(str1,"a");

printf("\n\n请输入变量名（必须已声明）：");

scanf("%s",&str22);

printf("\n\n你希望保留几位小数？\n");

scanf("%d",&follow);

fprintf(fp,"%s",str14);

fprintf(fp,"%s",str6);

fprintf(fp,"%c",a);

fprintf(fp,"%s",str20);

fprintf(fp,"%s",str21);

fprintf(fp,"%d",follow);

fprintf(fp,"%s",str18);

fprintf(fp,"%c",a);

fprintf(fp,"%s",str15);

fprintf(fp,"%s",str22);

fprintf(fp,"%s",str7);

fprintf(fp,"%s",str8);

fprintf(fp,"%s",str13);

fclose(fp);

printf("\n\n操作成功。\n\n");

}//分数

else if (choice==3)

{

FILE\*fp;

fp=fopen(str1,"a");

printf("\n\n请输入字符串编号（必须已声明）：");

scanf("%s",&str22);

fprintf(fp,"%s",str14);

fprintf(fp,"%s",str6);

fprintf(fp,"%c",a);

fprintf(fp,"%s",str19);

fprintf(fp,"%c",a);

fprintf(fp,"%s",str15);

fprintf(fp,"%s",str23);

fprintf(fp,"%s",str22);

fprintf(fp,"%s",str7);

fprintf(fp,"%s",str8);

fprintf(fp,"%s",str13);

fclose(fp);

printf("\n\n操作成功。\n\n");

}//字符串

else if (choice==4)

{break;}

}//内循环

}//显示变量值

else if (choice==12)

{

printf("\n\n1.极短延迟\n2.普通延迟\n3.较长延迟\n（相对，取决于主机性能）\n选择：");

scanf("%d",&choice);

if (choice==1)

{

char str14[500]="time\_t start,end;\nstart=time(NULL);\nfor(int i=0;i<30000000;i++);\nend=time(NULL);\n";

FILE\*fp;

fp=fopen(str1,"a");

fprintf(fp,"%s",str14);

fclose(fp);

printf("\n\n操作成功。\n\n");

}//极短延迟

else if (choice==2)

{

char str14[500]="time\_t start,end;\nstart=time(NULL);\nfor(int i=0;i<100000000;i++);\nend=time(NULL);\n";

FILE\*fp;

fp=fopen(str1,"a");

fprintf(fp,"%s",str14);

fclose(fp);

printf("\n\n操作成功。\n\n");

}//普通延迟

else if(choice==3)

{

char str14[500]="time\_t start,end;\nstart=time(NULL);\nfor(int i=0;i<180000000;i++);\nend=time(NULL);\n";

FILE\*fp;

fp=fopen(str1,"a");

fprintf(fp,"%s",str14);

fclose(fp);

printf("\n\n操作成功。\n\n");

}//较长延迟

}//时间延迟

else if (choice==13)

{

while (1)

{

printf("\n\n请选择数据存储模块的类型：\n1.由开发者命名文件\n2.由开发者设定内容\n3.开发者设定文件名与内容\n4.返回菜单\n选择：");scanf("%d",&choice);

if (choice==4)

{break;}

else if (choice==1)

{

char str14[50];

char str22[50];

char str23[10];

printf("\n\n设定文件名：");

scanf("%s",&str14);

printf("\n\n设定需要储存的变量（名称）：");

scanf("%s",&str22);

printf("\n\n设定变量类型：\n1.整数\n2.分数\n3.字符型\n选择：");

scanf("%d",&choice);

if (choice==1)

{strcpy(str23,"%d");}

else if (choice==2)

{strcpy(str23,"%f");}

else if (choice==3)

{strcpy(str23,"%s");}

char str15[50]="FILE\*fp;";

char str16[50]="char str[50]=";

char a='"';

char str17[50]="fp=fopen(";

char str18[5]="fp";

char str19[5]="%s";

char str20[5]="str";

char str21[10]="fprintf(";

char b='a';

char c=',';

char str24[50]="fclose(fp);";

FILE\*fp;

fp=fopen(str1,"a");

fprintf(fp,"%s",str15);

fprintf(fp,"%s",str13);

fprintf(fp,"%s",str16);

fprintf(fp,"%c",a);

fprintf(fp,"%s",str14);

fprintf(fp,"%c",a);

fprintf(fp,"%s",str8);

fprintf(fp,"%s",str13);

fprintf(fp,"%s",str17);

fprintf(fp,"%s",str20);

fprintf(fp,"%c",c);

fprintf(fp,"%c",a);

fprintf(fp,"%c",b);

fprintf(fp,"%c",a);

fprintf(fp,"%s",str7);

fprintf(fp,"%s",str8);

fprintf(fp,"%s",str13);

fprintf(fp,"%s",str21);

fprintf(fp,"%s",str18);

fprintf(fp,"%c",c);

fprintf(fp,"%c",a);

fprintf(fp,"%s",str23);

fprintf(fp,"%c",a);

fprintf(fp,"%c",c);

fprintf(fp,"%s",str22);

fprintf(fp,"%s",str7);

fprintf(fp,"%s",str8);

fprintf(fp,"%s",str13);

fprintf(fp,"%s",str24);

fprintf(fp,"%s",str13);

fclose(fp);

printf("\n\n操作成功。\n\n");

}//开发者命名文件

else if (choice==2)

{

char str14[500];

int no;

printf("\n\n请输入文件的内容：");

scanf("%s",&str14);

printf("\n\n用户通过编号为多少的字符型变量给文件命名（不得与之前已声明过的字符型变量编号重复）：");

scanf("%d",&no);

char str29[50]="char str100[500]=";

char str30[10]="str100";

char str15[50]="FILE\*fp;";

char str16[50]="char str";

char a='"';

char str17[50]="fp=fopen(";

char str18[5]="fp";

char str19[5]="%s";

char str20[5]="str";

char str21[10]="fprintf(";

char b='a';

char c=',';

char str24[50]="fclose(fp);";

char str25[10]="[50]";

char str26[20]="printf(";

char str27[50]="\n\n请输入文件名：";

char str28[10]="scanf(";

char d='&';

FILE\*fp;

fp=fopen(str1,"a");

fprintf(fp,"%s",str29);

fprintf(fp,"%c",a);

fprintf(fp,"%s",str14);

fprintf(fp,"%c",a);

fprintf(fp,"%s",str8);

fprintf(fp,"%s",str13);

fprintf(fp,"%s",str16);

fprintf(fp,"%d",no);

fprintf(fp,"%s",str25);

fprintf(fp,"%s",str8);

fprintf(fp,"%s",str13);

fprintf(fp,"%s",str26);

fprintf(fp,"%c",a);

fprintf(fp,"%s",str27);

fprintf(fp,"%c",a);

fprintf(fp,"%s",str7);

fprintf(fp,"%s",str8);

fprintf(fp,"%s",str13);//告知获取

fprintf(fp,"%s",str28);

fprintf(fp,"%c",a);

fprintf(fp,"%s",str19);

fprintf(fp,"%c",a);

fprintf(fp,"%c",c);

fprintf(fp,"%c",d);

fprintf(fp,"%s",str20);

fprintf(fp,"%d",no);

fprintf(fp,"%s",str7);

fprintf(fp,"%s",str8);

fprintf(fp,"%s",str13);

fprintf(fp,"%s",str15);

fprintf(fp,"%s",str13);

fprintf(fp,"%s",str17);

fprintf(fp,"%s",str20);

fprintf(fp,"%d",no);

fprintf(fp,"%c",c);

fprintf(fp,"%c",a);

fprintf(fp,"%c",b);

fprintf(fp,"%c",a);

fprintf(fp,"%s",str8);

fprintf(fp,"%s",str13);

fprintf(fp,"%s",str21);

fprintf(fp,"%s",str18);

fprintf(fp,"%c",c);

fprintf(fp,"%c",a);

fprintf(fp,"%s",str19);

fprintf(fp,"%c",a);

fprintf(fp,"%c",c);

fprintf(fp,"%s",str30);

fprintf(fp,"%s",str7);

fprintf(fp,"%s",str8);

fprintf(fp,"%s",str13);

fprintf(fp,"%s",str24);

fprintf(fp,"%s",str13);

printf("\n\n操作成功。\n\n");

}//开发者设定内容

else if (choice==3)

{

printf("\n\n测试版本暂不支持该模块这一功能的进一步开发。\n\n");

}

}//内循环

}//数据存储

}//大循环

}