1. 《指导与实践》P199 范例1

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| --- | --- | --- | --- |
| #include<stdio.h>  #include<stdlib.h>  void main() {  FILE \*fp;  int total\_book=0,book;  float total\_cost=0.0,cost;  if((fp=fopen("book.dat","r"))==NULL){  printf("book file can’t open！");  exit(0);  }  while(feof(fp)==0){  fseek(fp,24L,1);  fscanf(fp,"%d%f\n",&book,&cost);  total\_book+=book;  total\_cost+=cost\*book;  }  printf("total books=%d\n",total\_book);  printf("total cost=%f\n",total\_cost);  }   |  | | --- | | book.dat | | How to us Computer 0001 100 5.00  The C Language 0002 50 10.00  Turbo C 2.0 User 0003 200 4.50  Microsoft C6.0User 0004 120 16.00  Windows for c++ 0005 200 25.00 | | total books=670  total cost=8820.000000 |

1. 《指导与实践》P200 范例2

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| #include<stdio.h>  #define TLINE 10  #define LINEP 2  void main(int argc,char \*argv[]){  int flag,page,line,i;  char buf[100];  FILE \*fp;  if(argc<2){  printf("\nNo file name\n");exit(0);  }  if((fp=fopen(argv[1],"r"))==0){  printf("\nCan't open file\n");exit(0);  }  flag=page=line=1;  while(flag){  for(i=0;i<LINEP;i++)printf("\n");  printf("%s\n",argv[1]);  for(i=0;i<TLINE;i++){  if((fgets(buf,80,fp))==0)  flag=0;  if(flag){  printf("%6d %s",line++,buf);  if(buf[78]!=0) printf("\n");  }  else  for(i+=2;i<TLINE;i++) printf("\n");  }  printf("\n%65s%d.\n",".",page++);  for(i=0;i<LINEP;i++) printf("\n");  }  fclose(fp);  } |
| C:\Users\流萤、\Desktop>lab2.exe lab2.c  lab2.c  1 #include<stdio.h>  2 #define TLINE 10  3 #define LINEP 2  4 void main(int argc,char \*argv[]){  5 int flag,page,line,i;  6 char buf[100];  7 FILE \*fp;  8 if(argc<2){  9 printf("\nNo file name\n");exit(0);  10 }  .1.  lab2.c  11 if((fp=fopen(argv[1],"r"))==0){  12 printf("\nCan't open file\n");exit(0);  13 }  14 flag=page=line=1;  15 while(flag){  16 for(i=0;i<LINEP;i++)printf("\n");  17 printf("%s\n",argv[1]);  18 for(i=0;i<TLINE;i++){  19 if((fgets(buf,80,fp))==0)  20 flag=0;  .2.  lab2.c  21 if(flag){  22 printf("%6d %s",line++,buf);  23 if(buf[78]!=0) printf("\n");  24 }  25 else  26 for(i+=2;i<TLINE;i++) printf("\n");  27 }  28 printf("\n%65s%d.\n",".",page++);  29 for(i=0;i<LINEP;i++) printf("\n");  30 }  .3.  lab2.c  31 fclose(fp);  32 }    .4. |

1. 《指导与实践》P201实验内容1

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| --- | --- | --- |
| #include<stdio.h>  struct student  { char id[20];  char name[10];  float grade[3];  float ave;  }stu[5];  main()  { FILE \*fp=fopen("stud\_dat","w+");  int i;  printf("输入学号、姓名、三次成绩:\n");  for(i=0;i<5;i++)  { scanf("%s %s %f%f%f",stu[i].id,stu[i].name,&stu[i].grade[0],&stu[i].grade[1],&stu[i].grade[2]);  stu[i].ave=(stu[i].grade[0]+stu[i].grade[1]+stu[i].grade[2])/3;  fprintf(fp,"%s %s %f %f %f %f\n",stu[i].id,stu[i].name,stu[i].grade[0],stu[i].grade[1],stu[i].grade[2],stu[i].ave);  }  fclose(fp);  }   |  | | --- | | 生成stud\_dat | | PB01 白雪飞 67 79 89  PB02 杨一帆 99 100 94  PB03 林佳滢 11 22 33  PB04 任欢 66 77 83  PB05 吴文轩 95 40 12 | |

1. 《指导与实践》P202实验内容2

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| --- | --- | --- |
| #include<stdio.h>  struct student  { char id[20];  char name[10];  float grade[3];  float ave;  }stu[5],temp;  main()  { int i,j;  FILE \*fp=fopen("stud\_dat","r");  if(fp!=NULL)  { for(i=0;i<5;i++)  fscanf(fp,"%s %s %f%f%f%f",stu[i].id,stu[i].name,&stu[i].grade[0],&stu[i].grade[1],&stu[i].grade[2],&stu[i].ave);  fclose(fp);  }  else  {printf("Can not find the stud\_dat");exit(0);  }    for(i=0;i<5;i++)  for(j=i+1;j<5;j++)  if(stu[j].ave>stu[i].ave)  { temp=stu[i];  stu[i]=stu[j];  stu[j]=temp;  }    fp=fopen("stu\_sort","w");  for(i=0;i<5;i++)  fprintf(fp,"%s %s %f %f %f %f\n",stu[i].id,stu[i].name,stu[i].grade[0],stu[i].grade[1],stu[i].grade[2],stu[i].ave);  fclose(fp);  printf("sort succeed!");   |  | | --- | | 对stud\_dat按平均成绩排序生成stu\_sort | | PB02 杨一帆 99.000000 100.000000 94.000000 97.666664  PB01 白雪飞 67.000000 79.000000 89.000000 78.333336  PB04 任欢 66.000000 77.000000 83.000000 75.333336  PB05 吴文轩 95.000000 40.000000 12.000000 49.000000  PB03 林佳滢 11.000000 22.000000 33.000000 22.000000 |   } |

1. 《指导与实践》P202实验内容3

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| --- |
| #include<stdio.h>  struct student  { char id[20];  char name[10];  float grade[3];  float ave;  }stu[5],temp;  main()  { int i,j;  FILE \*fp=fopen("stu\_sort","r");  if(fp!=NULL)  { for(i=0;i<5;i++)  fscanf(fp,"%s %s %f%f%f%f",stu[i].id,stu[i].name,&stu[i].grade[0],&stu[i].grade[1],&stu[i].grade[2],&stu[i].ave);  fclose(fp);  }  else  {printf("Can not find the stu\_sort");exit(0);  }  for(i=0;i<5;i++)  printf("%s %s %f %f %f %f\n",stu[i].id,stu[i].name,stu[i].grade[0],stu[i].grade[1],stu[i].grade[2],stu[i].ave);  } |
| 输出：  PB02 杨一帆 99.000000 100.000000 94.000000 97.666664  PB01 白雪飞 67.000000 79.000000 89.000000 78.333336  PB04 任欢 66.000000 77.000000 83.000000 75.333336  PB05 吴文轩 95.000000 40.000000 12.000000 49.000000  PB03 林佳滢 11.000000 22.000000 33.000000 22.000000 |

1. 《指导与实践》P202实验内容5

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| --- | --- |
| #include<stdio.h>  main()  { char name[30]={0},t;  int a[27]={0},b[27]={0},i,d;  printf("输入被统计文件名:");  gets(name);  FILE \*fp=fopen(name,"r");  if(fp==NULL)  { printf("can not find this file");  exit(0);  }    t=fgetc(fp);  for(;t!=EOF;)  { if(t<='z'&&t>='a')  { a[t-'a'+1]++;  a[0]++;  }  else if(t<='Z'&&t>='A')  { b[t-'A'+1]++;  b[0]++;  }  t=fgetc(fp);  }  for (printf("共有英文字母：%d个\n小写字母：%d个\n",a[0]+b[0],a[0]),i=1,d=1;i<=26;i++,d++)  printf("%c:%d个%c",i+'a'-1,a[i],d%5==0?'\n':' ');  for (printf("\n大写字母：%d个\n",b[0]),i=1,d=1;i<=26;i++,d++)  printf("%c:%d个%c",i+'A'-1,b[i],d%5==0?'\n':' ');  fclose(fp);  } | |
| 输入被统计文件名:lab2.c  共有英文字母：326个  小写字母：290个  a:18个 b:4个 c:6个 d:7个 e:23个  f:38个 g:14个 h:4个 i:43个 j:0个  k:0个 l:14个 m:2个 n:33个 o:10个  p:18个 q:0个 r:21个 s:7个 t:16个  u:5个 v:4个 w:1个 x:2个 y:0个  z:0个 | **大写字母：36个**  **A:0个 B:0个 C:1个 D:0个 E:7个**  **F:1个 G:0个 H:0个 I:7个 J:0个**  **K:0个 L:7个 M:0个 N:7个 O:0个**  **P:3个 Q:0个 R:0个 S:0个 T:3个**  **U:0个 V:0个 W:0个 X:0个 Y:0个**  **Z:0个** |