

文件操作读写

1.文件读写 fgets fputs

```
#include<stdio.h>
#include<stdlib.h>

int main() {
    char file_name[20] = "../a.txt";
    FILE *fpw = fopen(file_name, "w");

    char str[100] = "abcdefghigklmnopqrstuvwxyz";
    if (NULL == fpw) {
        printf("打开失败\n");
        exit(0);
    }

    fputs(str, fpw);

    fclose(fpw);

    FILE *fpr = fopen(file_name, "r");
    char res[100];

    fgets(res, 5, fpr);
    printf("%s", res);
    fclose(fpr);

    return 0;
}
```

控制台输出:

```
abcd
```

文件内容:

```
abcdefghigklmnopqrstuvwxyz
```

2.文件读写 fscanf fprintf

```
#include <stdio.h>
#include <stdlib.h>

typedef struct student{

    int id;
    float score;
    char b[100];

} student;

#define N 5

int main() {

    FILE *fpw = fopen("../a.txt", "w");

    student student1[N] = {
        {1, 120.5f, "djfgfgfffflKFjFj"},
        {2, 125.5f, "15655"},
        {3, 130.5f, "4525252"},
        {4, 140.5f, "djffff1525252525kFjFj"},
        {5, 145.5f, "sdddd"}
    };

    for (int i = 0; i < N; ++i) {
        fprintf(fpw, "%d %f %s\n", student1[i].id, student1[i].score, student1[i].b);
    }

    fclose(fpw);

    student s[5];

    FILE *fpr = fopen("../a.txt", "r");
    if(fpr!=NULL){
        for (int i = 0; i < N; ++i) {
            fscanf(fpr, "%d %f %s", &s[i].id, &s[i].score, s[i].b);
        }
        fclose(fpr);

        for (int i = 0; i < N; ++i) {
            printf("%d %f %s\n", s[i].id, s[i].score, s[i].b);
        }
    } else{
        printf("打开失败");
    }

    return 0;
}
```

控制台输出:

```
1 120.500000 djfgfgffflkfjfj
2 125.500000 15655
3 130.500000 4525252
4 140.500000 djfff1525252525kfjfj
5 145.500000 sddddd
```

a.txt 文件内容:

```
1 120.500000 djfgfgffflkfjfj
2 125.500000 15655
3 130.500000 4525252
4 140.500000 djfff1525252525kfjfj
5 145.500000 sddddd
```

3.文件读写 fwrite fread

```
#include <stdio.h>

typedef struct student{
    int id;
    float score;
    char str[20];
}student;

int main() {

    student s[5] = {
        {1,150.0f,"dhfgfgf"},
        {2,124.0f,"55555f7fdf82"},
        {3,150.0f,"fdjhgdgkd"},
        {4,130.0f,"fdgkhhd fkd878"},
        {5,115.0f,"58855dkmgjkdk"}
    };

    FILE *fpw;

    fpw = fopen("../a.txt","wb");

    if(fpw!=NULL){
        for (int i = 0; i < 5; ++i) {
            fwrite(&s[i],sizeof(student),1,fpw);    // 缓冲区 每个大小按字节计算 多少个 文件指针
        }
    }
    fclose(fpw);
```

```
student res[5];

FILE *fpr;
fpr = fopen("../a.txt", "rb");
if(fpr!=NULL){
    for (int i = 0; i < 5; ++i) {
        fread(&res[i], sizeof(student), 1, fpr);
    }
}

for (int i = 0; i < 5; ++i) {
    printf("%d %f %s\n", res[i].id, res[i].score, res[i].str);
}
fclose(fpr);
return 0;
}
```

控制台输出:

```
1 150.000000 dhfgfgf
2 124.000000 55555f7fdf82
3 150.000000 fdjhgdgkd
4 130.000000 fdgkhhd fkd878
5 115.000000 58855dkmgjkd
```

a.txt 文件内容:

<input type="checkbox"/>	<input type="checkbox"/> Cdhfgfgf	<input type="checkbox"/>	鳥55555f7fdf82	<input type="checkbox"/>	<input type="checkbox"/> Cfdjhgdgkd
<input type="checkbox"/>	<input type="checkbox"/> Cfdgkhhd fkd878	<input type="checkbox"/>	鋤58855dkmgjkd		