

Files (1B)

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a1.c

```
#include <stdio.h>

int main(void) {

    FILE *fp;
    int i;

    fp = fopen("output.txt", "w");

    for (i=0; i<16; ++i) {
        fprintf(fp, "i= %d \n", i);
    }

    fclose(fp);

}
```

a2.c

```
include <stdio.h>

int main(void) {

    FILE *fp1, *fp2, *fp3;
    int i, m;

    fp1 = fopen("output1.txt", "w");
    fp2 = fopen("output2.txt", "w");

    for (i=0; i<16; ++i) {
        fprintf(fp1, "i= %d \n", i*100);
        fprintf(fp2, "i= %d \n", i*111);
    }

    fclose(fp1);
    fclose(fp2);

    fp1 = fopen("output1.txt", "w");
    fp2 = fopen("output2.txt", "a");
    for (i=0; i<16; ++i) {
        fprintf(fp1, "i= %d \n", i*10000);
        fprintf(fp2, "i= %d \n", i*10101);
    }
    fclose(fp1);
    fclose(fp2);

    fp3 = fopen("input.txt", "r");
    for (i=0; i<16; ++i) {
        fscanf(fp3, " %d", &m);
        printf("i=%d m=%d \n", i, m);
    }
    fclose(fp3);

}
```

a3.c

```
#include <stdio.h>

int main(void) {
    int i = 123;
    double x = 123.0;

    FILE *fp;

    fp = fopen("some.dat", "w");

    fwrite(&i, sizeof(int), 1, fp);
    fwrite(&x, sizeof(double), 1, fp);

    fclose(fp);
}
```

a3.c

```
#include <stdio.h>

int main(void) {
    int    i = 123;
    double x = 123.0;

    FILE *fp;

    fp = fopen("some.dat", "w");

    fwrite(&i, sizeof(int),    1, fp);
    fwrite(&x, sizeof(double), 1, fp);

    fclose(fp);
}
```

a3.c

```
#include <stdio.h>

int main(void) {
    int    i = 123;
    double x = 123.0;

    FILE *fp;

    fp = fopen("some.txt", "w");

    fprintf(fp, " %d", i);
    fprintf(fp, " %f", x);

    fclose(fp);

}
```

a3.c

```
#include <stdio.h>

struct cData {
    unsigned int acc;
    char last[15];
    char first[10];
    double balance;
};

int main(void) {
    struct cData B = { 0, "", "", 0};

    printf("sizeof(B)= %ld bytes \n", sizeof(B));

    FILE *fp;

    fp = fopen("acct.dat", "w");

    fwrite(&B, sizeof(B), 1, fp);

    fclose(fp);
}
```

a3.c

```
#include <stdio.h>

int main(void) {

    FILE *fp;
    int i;
    char A[16];
    char C;

    fp = fopen("some.dat", "wb");

    for (i=0; i<16; ++i) A[i] = i;

    fwrite(A, sizeof(char), 16, fp);

    fclose(fp);

    //.....
    fp = fopen("some.dat", "rb");

    for (i=0; i<8; ++i) {
        fseek(fp, 1, SEEK_CUR);

        fread(&C, sizeof(char), 1, fp);
        printf("C= %d %x \n", C, C);
    }

    fseek(fp, 2, SEEK_SET);
    fread(&C, sizeof(char), 1, fp);
    printf("C= %d %x \n", C, C);

    fseek(fp, -3, SEEK_END);
    fread(&C, sizeof(char), 1, fp);
    printf("C= %d %x \n", C, C);

    fclose(fp);
}
```

a3.c

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