Files (1B)

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("acnt.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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