```
Alexs-MacBook-Air:6 alex$ cat enrollee.h
#ifndef _enrollee_h_
#define _enrollee_h_
typedef struct {
    char name [50];
    char sex;
    uint32_t school;
    char medal;
    char essay;
    uint32_t exam_1;
    uint32_t exam_2;
    uint32_t exam_3;
} enrollee;
#endif
Alexs-MacBook-Air:6 alex$ cat enrollee_dump.c
#include <stdio.h>
#include <string.h>
#include <errno.h>
#include <stdint.h>
#include "enrollee.h"
int readEnrollee(enrollee *e)
    return scanf("%[^\t]\t%c\t%u\t%c\t%u\t%u\t%c\n", e->name, &e-
>sex, &e->school, &e->medal,&e->exam_1, &e->exam_2, &e->exam_3, &e-
>essay) == 8;
}
int main(int argc, char* argv[])
{
    if (argc != 2) {
        perror("No filename");
        return 1;
    }
    enrollee e;
    FILE *out = fopen(argv[1], "w+");
    if (!out) {
        perror("Can't open or create the file");
        return 2;
    while (readEnrollee(&e)) {
        fwrite(&e, sizeof(e), 1, out);
    }
    fseek(out, 0, SEEK_SET);
    while (fread(\&e, sizeof(e), 1, out) == 1) {
        printf("%s\t%c\t%u\t%u\t%u\t%u\t%u\t%c\n", e.name, e.sex,
e.school, e.medal, e.exam 1, e.exam 2, e.exam 3, e.essay);
    return 0;
```

```
}
Alexs-MacBook-Air:6 alex$ cat same_2_marks.c
#include <stdio.h>
#include <stdint.h>
#include <string.h>
#include "enrollee.h"
int main(int argc, char* argv[])
    if (argc < 2) {
        perror("Usage: s_2_m [-f] dumb_file [result_file]\n");
    }
    int print = 0;
    if (strcmp(argv[1], "-f") == 0) {
        print = 1;
    }
    enrollee e;
    FILE *in = fopen(argv[1 + print], "r");
    if (!in) {
        perror("Can't open the file");
        printf("%s %d\n", argv[1 + print], print);
        return 2;
    FILE *out = fopen(argv[2 + print], "w");
    if (!in && argv[2 + print]) {
        perror("Can't open the file");
        return 2;
    while (fread(\&e, sizeof(e), 1, in) == 1) {
        if (e.sex == 'f') {
            if (e.exam_1 == e.exam_2 \mid | e.exam_2 == e.exam_3 \mid | e.exam_1
== e.exam_3) {
             if (argv[2 + print]) {
                 fprintf(out, "%s\n", e.name);
             }
             if (print) {
                 printf("%s\n", e.name);
             }
        }
    }
    return 0;
Alexs-MacBook-Air:6 alex$ gcc -Wall -pedantic -std=c99 -g
enrollee_dump.c -o dump.out
Alexs-MacBook-Air:6 alex$ gcc -Wall -pedantic -std=c99 -g same_2_marks.c
-o s_2_m₊out
Alexs-MacBook-Air:6 alex$ cat list.txt
Frank K.B.
            f
                 112 y
                          99
                             80
                                  80
                                       У
Freemen K.L m
                 814 n
                                   72
                          63
                              63
                                       У
Hitrhow A.B. f
                 1943 y
                          89
                              87
                                   91
```

```
Povlov M.V
                  773 y
                           82
                               76
             m
                                    85
                                        У
Krupin K.K.
                  1274 n
                           72
                                    69
             m
                               76
                                        У
                  f
                               100 98
                                        98
Nobosadova E.G.
                      1080 y
                                             У
Freeman B.I. m
                  772 n
                           91
                               88
                                    80
                                        У
                  914 n
Makarova M.A f
                           73
                               69
                                    73
                                        У
Kabberbatch N.V. m
                      1313 n
                               76
                                    72
                                        80
                                             У
Kiseleva M.P.
                  f
                      771 n
                               70
                                    70
                                        70
                                             У
Tsapkov A.M m
                  771 n
                           91
                               80
                                    80
                                        У
Kalita K.V.
                  1166 n
                           70
                               83
                                    76
                                        У
Pavlov A.V.
             m
                  228 n
                           53
                               60
                                    55
                                        n
Alexs-MacBook-Air:6 alex$ ./dump.out list.ls < list.txt
                           99
Frank K.B.
             f
                  112 y
                               80
                                    80
                                        У
Freemen K.L m
                  814 n
                           63
                               63
                                    72
                                        У
Hitrhow A.B. f
                  1943 y
                           89
                               87
                                    91
                                       У
                  773 y
Povlov M.V
             m
                           82
                               76
                                    85
                                        У
Krupin K.K.
                  1274 n
                           72
                               76
                                    69
                                        У
Nobosadova E.G.
                  f
                      1080 y
                               100 98
                                        98
                                             У
                           91
Freeman B.I. m
                  772 n
                               88
                                    80
                                        У
Makarova M.A f
                  914 n
                           73
                               69
                                    73
                                        У
                                        80
Kabberbatch N.V. m
                      1313 n
                               76
                                    72
                                             У
Kiseleva M.P.
                  f
                      771 n
                               70
                                    70
                                        70
                                             У
                  771 n
Tsapkov A.M m
                           91
                               80
                                    80
                                        У
Kalita K.V.
                  1166 n
                           70
                               83
                                    76
                                        У
Pavlov A.V. m
                  228 n
                           53
                               60
                                    55
                                        n
Alexs-MacBook-Air:6 alex$ ls
                  dump.out.dSYM
Protocol&Tasks
                                    enrollee_dump.c list.txts_2_m.out.dSYM
dump.out enrollee.h
                      list.ls
                                    s 2 m.out
                                                 same 2 marks.c
Alexs-MacBook-Air:6 alex$ ./s_2_m.out -f list.ls out.txt
Frank K.B.
Nobosadova E.G.
Makarova M.A
Kiseleva M.P.
Alexs-MacBook-Air:6 alex$ cat out.txt
Frank K.B.
Nobosadova E.G.
Makarova M.A
Kiseleva M.P.
Alexs-MacBook-Air:6 alex$
```