

*) how to use nanosleep

```
#define TEN_MILLIS_IN_NANOS 100000000

struct timespec t;

t.tv_sec = 0;
t.tv_nsec = rand()%(TEN_MILLIS_IN_NANOS+1);

nanosleep(&t, NULL);
```

*) how to read a char and offset from/to a file

```
if (!(file_in = fopen(infile, "r"))) {
    error("could not open input file for reading");
}

...

result.offset = ftell(file_in);    /* get position of byte in file */
result.byte = fgetc(file_in);     /* read byte from file */

...

fclose(infile)

-----

if (!(file_out = fopen(outfile, "w"))) {
    error("could not open output file for writing");
}

...

if (fseek(file_out, d.offset, SEEK_SET) == -1) {
    fprintf(stderr, "error setting output file position to %u\n",
        (unsigned int) d.offset);
    exit(-1);
}
if (fputc(d.byte, file_out) == EOF) {
    fprintf(stderr, "error writing byte %d to output file\n", d.byte);
    exit(-1);
}

...
fclose(infile)
```

*) When does the program finish?