Chapter 27: Error handling

Section 27.1: errno

When a standard library function fails, it often sets errno to the appropriate error code. The C standard requires at least 3 values for errno be set:

Value Meaning EDOM Domain error

ERANGE Range error

EILSEQ Illegal multi-byte character sequence

Section 27.2: strerror

If perror is not flexible enough, you may obtain a user-readable error description by calling strerror from <string.h>.

Section 27.3: perror

To print a user-readable error message to stderr, call perror from <stdio.h>.

```
int main(int argc, char *argv[])
{
    FILE *fout;

    if ((fout = fopen(argv[1], "w")) == NULL) {
        perror("fopen: Could not open file for writing");
        return EXIT_FAILURE;
    }

return EXIT_SUCCESS;
}
```

This will print an error message concerning the current value of errno.