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#include <stdio.h>

#include <fcntl.h>

#include <unistd.h>

#include <sys/stat.h>


int main(int argc, char *argv[]) {

    // Open file for writing, creating it if it doesn't exist
    int fd = open("example.txt", O_WRONLY | O_CREAT, S_IRUSR | S_IWUSR);


    // Check if file was successfully opened
    if (fd == -1) {
        perror("Failed to open file");
        return 1;
    }


    // Write a string to the file
    const char *message = "Hello, file management!\n";
    int len = write(fd, message, strlen(message));


    // Check if write was successful
    if (len == -1) {
        perror("Failed to write to file");
        return 1;
    }


    // Close the file
    int result = close(fd);


    // Check if file was successfully closed
    if (result == -1) {
        perror("Failed to close file");
```

```
    return 1;  
}
```

```
return 0;  
}
```

```
$ ./a.out  
Failed to open file: Permission denied
```