

main.c

Run

Output

Clear

```
1 #include <stdio.h>
2 #include <fcntl.h>
3 #include <unistd.h>
4
5 int main() {
6     int fd;
7     char write_buf[] = "Hello, UNIX file
8         management!";
9     char read_buf[50];
10
11     // Create or open a file
12     fd = open("file.txt", O_CREAT | O_RDWR, 0644
13         );
14     if (fd < 0) {
15         perror("Error opening file");
16         return 1;
17     }
18 }
```

Content read from file: Hello, UNIX file management!



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Run

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Clear

```
1 #include <stdio.h>
2 #include <sys/stat.h>
3 #include <unistd.h>
4
5 void print_permissions(mode_t mode) {
6     printf((S_ISDIR(mode)) ? "d" : "-");
7     printf((mode & S_IRUSR) ? "r" : "-");
8     printf((mode & S_IWUSR) ? "w" : "-");
9     printf((mode & S_IXUSR) ? "x" : "-");
10    printf((mode & S_IRGRP) ? "r" : "-");
11    printf((mode & S_IWGRP) ? "w" : "-");
12    printf((mode & S_IXGRP) ? "x" : "-");
13    printf((mode & S_IROTH) ? "r" : "-");
14    printf((mode & S_IWOTH) ? "w" : "-");
15    printf((mode & S_IXOTH) ? "x" : "-");
16 }
17
18 int main() {
```

File permissions for example.txt: rwxr-xr--
File owner ID: 1001
File group ID: 1001