

# Командная оболочка Midnight Commander

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# Цели и задачи работы

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## Цель лабораторной работы

Ознакомление с файловой системой Linux, её структурой, именами и содержанием каталогов. Приобретение практических навыков по применению команд для работы с файлами и каталогами, по управлению процессами, по проверке использования диска и обслуживанию файловой системы.

# Задачи лабораторной работы

- 1 Изучить возможности Midnight Commander
- 2 Изучить редактор Midnight Commander

# **Процесс выполнения лабораторной работы**

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# Работа с Midnight Commander

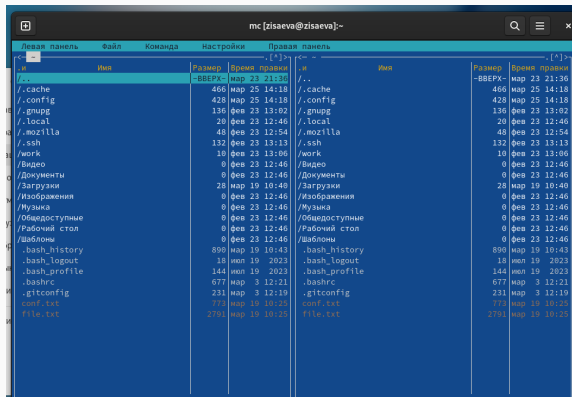


Рис. 1: Запуск mc

# Работа с Midnight Commander

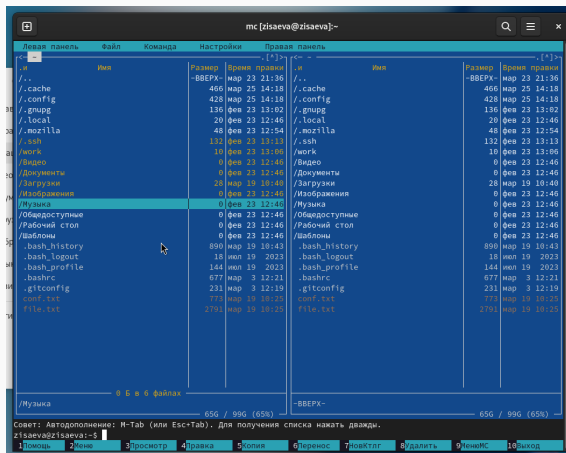


Рис. 2: Выделение

# Работа с Midnight Commander

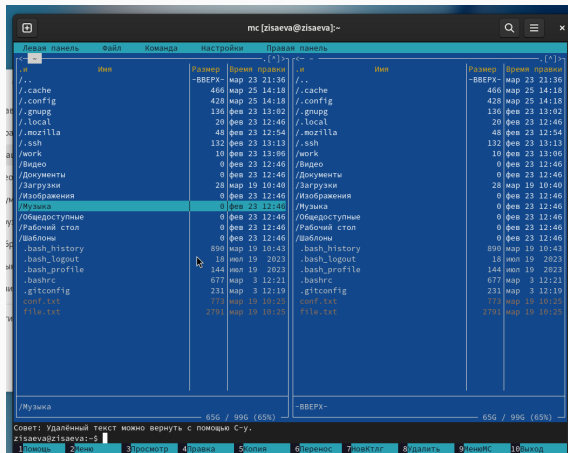


Рис. 3: Отмена



# Работа с Midnight Commander

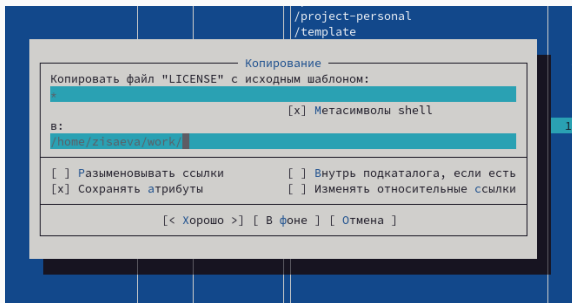


Рис. 4: Копирование

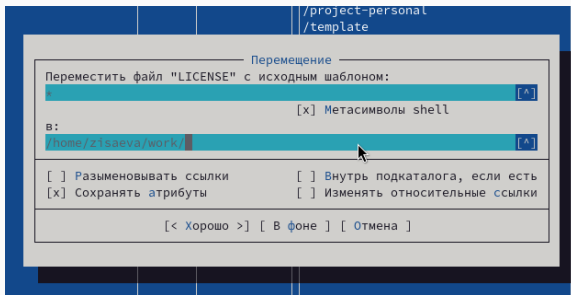


Рис. 5: Перемещение

# Работа с Midnight Commander

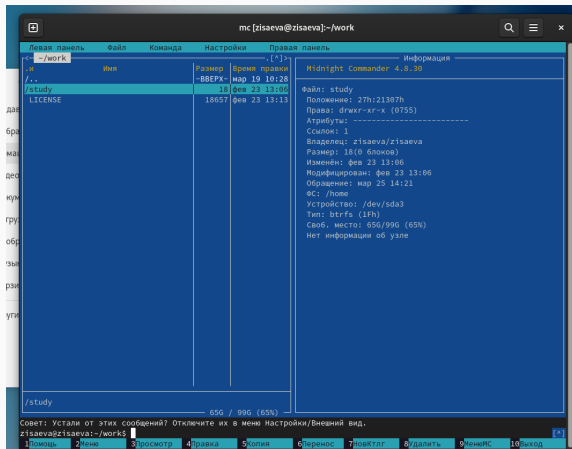


Рис. 6: Информация

# Работа с Midnight Commander

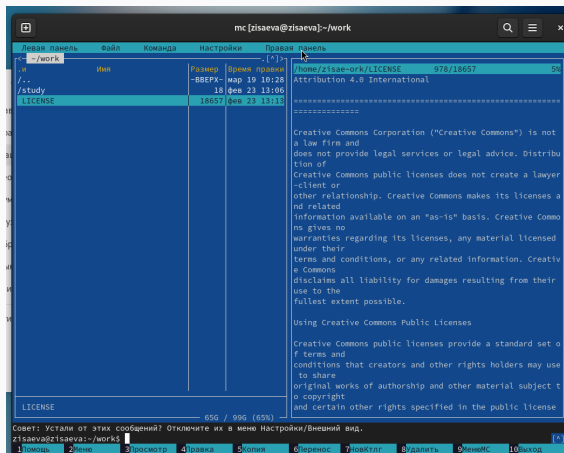


Рис. 7: Быстрый просмотр

# Работа с Midnight Commander

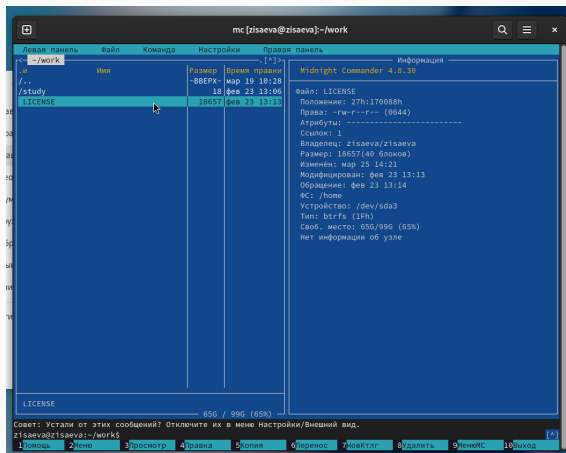


Рис. 8: Информация

# Работа с Midnight Commander

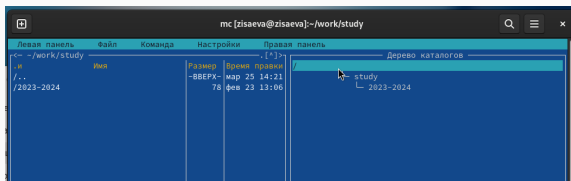
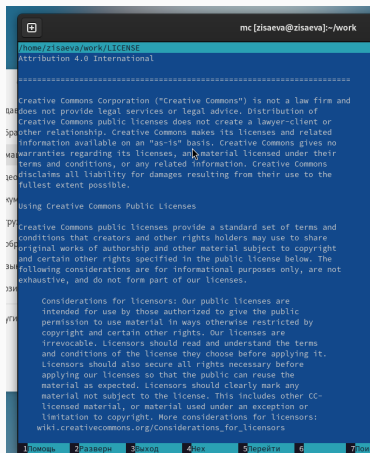


Рис. 9: Дерево каталогов

# Работа с Midnight Commander



The screenshot shows the Midnight Commander interface. The title bar at the top reads "mc [zisaeva@zisaeva]: ~/work". The left pane shows the directory path "/home/zisaeva/work/LICENSE". The right pane displays the text of the "Attribution 4.0 International" license. The text is as follows:

```
Attribution 4.0 International

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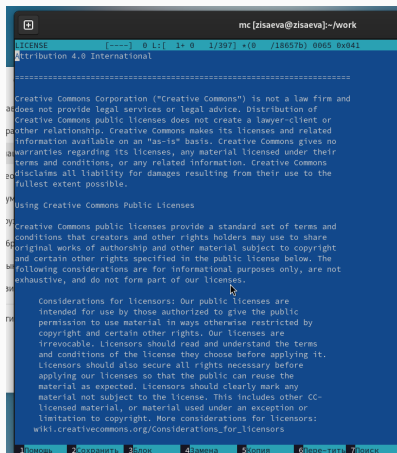
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```

At the bottom of the window, there is a status bar with icons and labels: 1 Помощь, 2 Развернуть, 3 Выход, 4 Неж, 5 Перейти, 6, 7 Поиск.

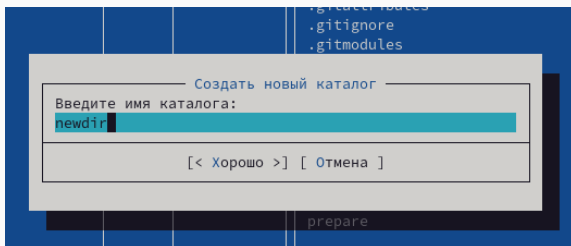
Рис. 10: Просмотр содержимого текстового файла

# Работа с Midnight Commander



**Рис. 11:** Отредактируем содержимое текстового файла без сохранения результатов





**Рис. 12:** Создание каталога

# Работа с Midnight Commander

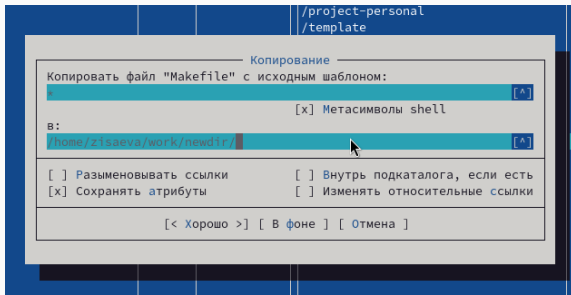


Рис. 13: Копирование в файлов в созданный каталог

# Работа с Midnight Commander

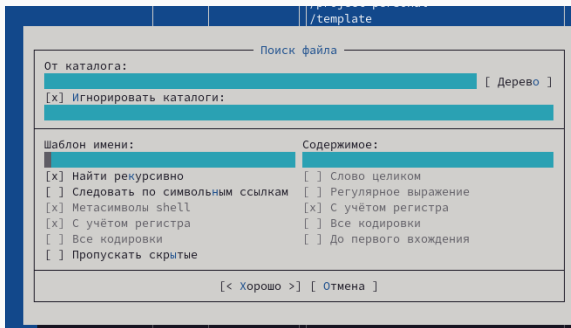


Рис. 14: Поиск файлов

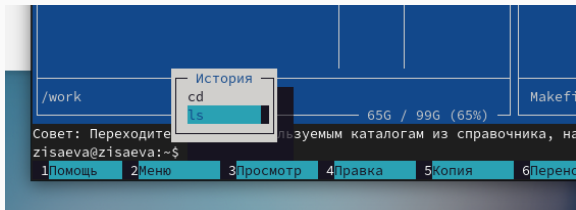


Рис. 15: История команд

# Работа с Midnight Commander

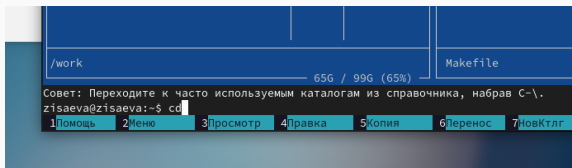


Рис. 16: Переход в домашний каталог

# Работа с Midnight Commander



```
mc.ext.ini      [-----]  0 L: 1+ 0  1/1136) *(0  /26909b) 0035 0x023      [.*|X]
Midnight Commander 4.8 extension file
#
# Warning: The structure of this file has been completely changed with the version 4.0!
#
# All lines starting with # or empty lines are ignored.
#
# IMPORTANT: mc scans this file only upon first use or after editing it using the
# mc "Edit extension file" command (F8-c-e). If you edit this file in any other way
# while mc is running, you will need to press F8-c-e and exit the editor for your
# changes to take effect, or exit mc and start it again.
#
# Section name can be anything with following exceptions:
#   there are two reserved section names:
#       mc.ext.ini
#       Default
#   special name pattern:
#       Include/xxxx
#   See below for more details.
#
# Section [mc.ext.ini] is mandatory. It contains file metadata.
# "Version" parameter is mandatory. It contains the file format version.
#
# Section [Default] is optional. It is applied only if no other match was found.
#
# Sections like [Include/xxxx] can be referenced as "Include=xxxx" from other sections.
# Section [Include/xxxx] can be located as before as after sections that point to it.
#
# Sections are processed from top to bottom, thus the order is important.
# If there are more than one sections with the same name in this file, the first
# section will be used.
#
# [Default] should be a catch-all action and come last.
#
```

Рис. 17: Просмотр файла расширений

A screenshot of the Midnight Commander file menu. The window title is "menu" with a status bar at the bottom showing "1: Помощь 2: Сохранить 3: Поиск 4: Имена 5: Скопия 6: Перенести 7: Повтор 8: Удалить 9: НенавС 10: Выход". The menu content includes options like "shell\_patterns=0", "#####", "% The % character", "f The current file", "p The current file", "d The current working directory", "s \"Selected files\"; the tagged files if any, otherwise the current file", "t Tagged files", "u Tagged files (and they are untagged on return from expand\_format)", "v view Runs the commands and pipes standard output to the view command", "If %view is immediately followed by '!', recognize keywords", "ascii, hex, nroff and unform", "If the format letter is in uppercase, it refers to the other panel", "With a number followed the % character you can turn quoting on (default) and off. For example:", "f quote expanded macro", "if ditto", "of don't quote expanded macro", "#####", "t t Do something on the current file CMD=%(Enter command) SCMD %f", "t t Do something on the tagged files CMD=%(Enter command) for 1 in %t ; do", and a status bar at the bottom with 10 numbered buttons: 1: Помощь, 2: Сохранить, 3: Поиск, 4: Имена, 5: Скопия, 6: Перенести, 7: Повтор, 8: Удалить, 9: НенавС, 10: Выход.

```
menu [-----] 1 t: 1*16 17/378 *(732 /11821b) 0010 0x00A [x]
shell_patterns=0

#####
# % The % character
# f The current file (if non-local vfs, file will be copied locally and
# %f will be full path to it)
# p The current file
# d The current working directory
# s "Selected files"; the tagged files if any, otherwise the current file
# t Tagged files
# u Tagged files (and they are untagged on return from expand_format)
# v view Runs the commands and pipes standard output to the view command
# If %view is immediately followed by '!', recognize keywords
# ascii, hex, nroff and unform
#
# If the format letter is in uppercase, it refers to the other panel
#
# With a number followed the % character you can turn quoting on (default)
# and off. For example:
# %f quote expanded macro
# %if ditto
# %of don't quote expanded macro
#####

+ ! t t
0 Do something on the current file
CMD=%(Enter command)
SCMD %f

+ t t
0 Do something on the tagged files
CMD=%(Enter command)
for 1 in %t ; do
```

Рис. 18: Просмотр файла меню

# Работа с Midnight Commander



Рис. 19: Конфигурация



# Работа с Midnight Commander



Рис. 20: Внешний вид

# Работа с Midnight Commander



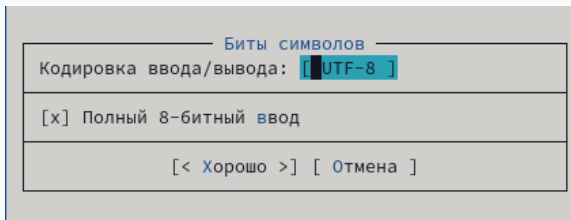
Рис. 21: Настройки панелей



Рис. 22: Подтверждение



**Рис. 23:** Оформление



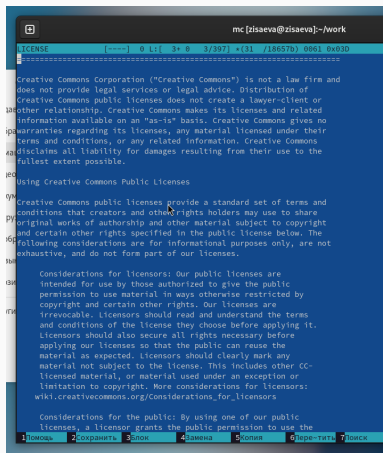
**Рис. 24:** Кодировка символов

# Работа с Midnight Commander



Рис. 25: Распознавание клавиш

# Работа с редактором Midnight Commander



The screenshot shows the Midnight Commander (mc) interface. The title bar at the top reads "mc [zisaeva@zisaeva]:~/work". The main window displays a file named "LICENSE" with a size of 0 bytes, last modified on 3/3/2017 at 15:57, and permissions of 0061 0x03D. The file content is displayed in a monospaced font on a dark blue background. The text includes a disclaimer from Creative Commons Corporation, a section titled "Using Creative Commons Public Licenses", and two paragraphs of considerations for licensors and the public. At the bottom of the window, there is a toolbar with icons and labels for "Помощь", "Сохранить", "Панель", "Замена", "Копия", "Вернуть", and "Помощь".

```
mc [zisaeva@zisaeva]:~/work
LICENSE  0 L: 3+ 0 3/3/2017 +(31 /156576) 0061 0x03D
=====
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Рис. 26: Файл с текстом

# Работа с редактором Midnight Commander

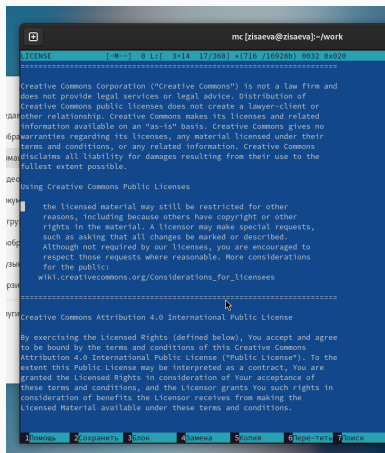
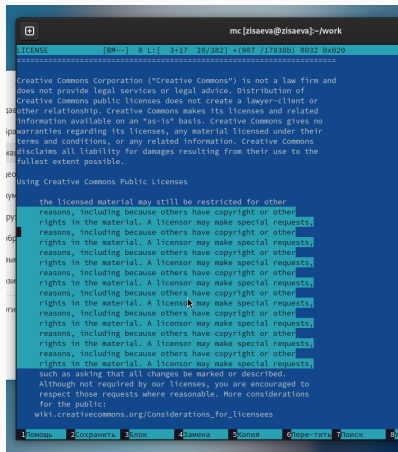


Рис. 27: Файл с текстом



## Работа с редактором Midnight Commander



### Рис. 28: Копирование фрагмента

# Работа с редактором Midnight Commander

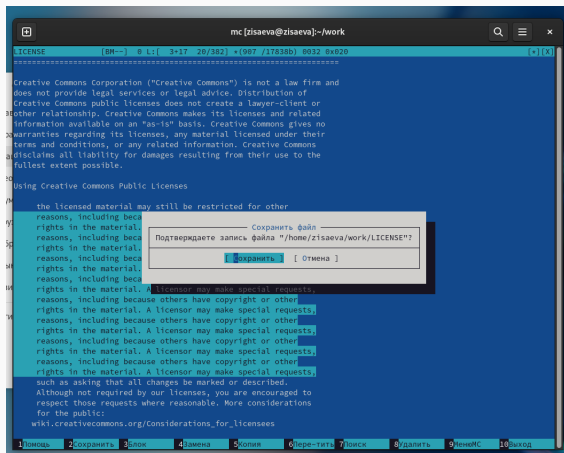


Рис. 29: Сохранение



# Работа с редактором Midnight Commander

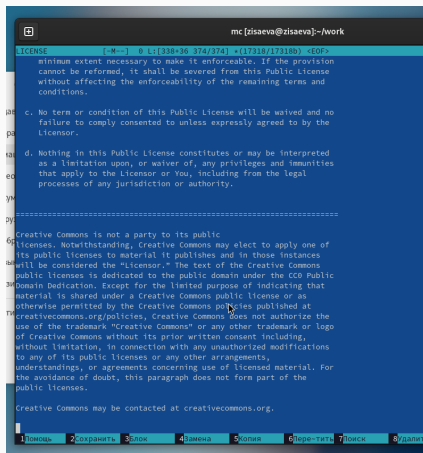
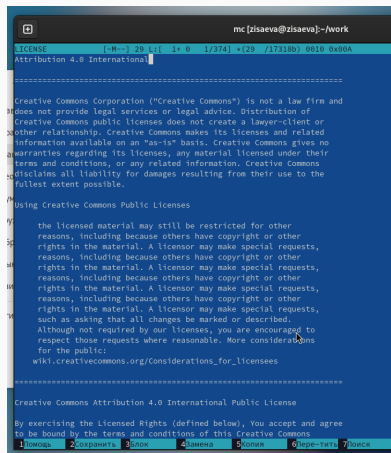


Рис. 31: Переход в конец файла

# Работа с редактором Midnight Commander



```
mc [zisaeva@zisaeva]:~/work
LICENSE [-M--] 29 L:[ 1+ 0 1/374] *(29 /17318b) 0010 0x00A
Attribution 4.0 International
=====
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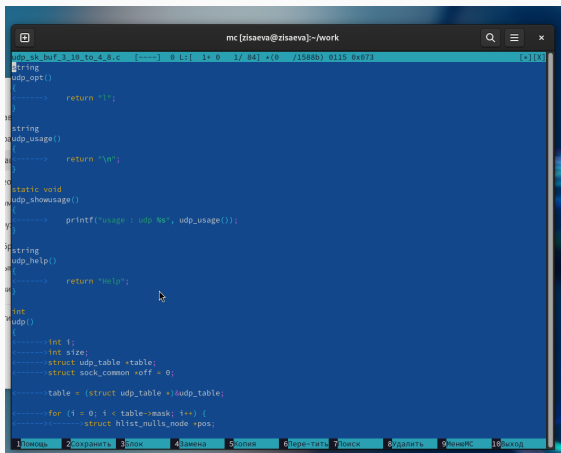
=====

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1 Помочь 2 Сохранить 3 Блок 4 Замена 5 Копия 6 Пере-тиг 7 Поиск
```

Рис. 32: Переход в начало файла

# Работа с редактором Midnight Commander



The image shows a screenshot of the Midnight Commander (mc) file manager and editor. The title bar indicates the user is 'mc [zisaeva@zisaeva] ~/work'. The editor displays a C program file named 'udp\_sk\_buf\_3.10\_to\_4.8.c'. The code includes a header file, defines a buffer size, and implements functions for displaying usage, help, and a main loop that reads from a UDP socket and prints the received data. The status bar at the bottom shows various actions like '1Поиск', '2Сохранить', '3Блок', etc.

```
mc [zisaeva@zisaeva] ~/work
udp_sk_buf_3.10_to_4.8.c  [----] 0 L: [ 1+ 0 1/ 84] * (0 /1588b) 0115 0x073 [.*] [X]
string
udp_opt()
{
    return "1";
}

string
udp_usage()
{
    return "\n";
}

static void
udp_showusage()
{
    printf("usage : udp %s", udp_usage());
}

string
udp_help()
{
    return "help";
}

int
udp()
{
    int i;
    int size;
    struct udp_table *table;
    struct sock_common *off = 0;

    table = (struct udp_table *) &udp_table;

    for (i = 0; i < table->mask; i++) {
        struct hlist_nulls_node *pos;
```

Рис. 33: Файл с программой

# Работа с редактором Midnight Commander

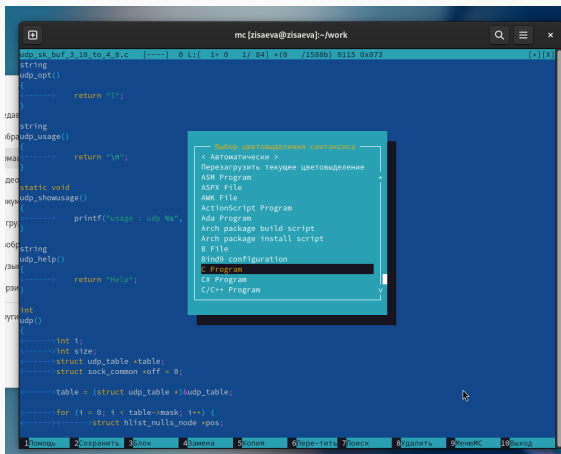


Рис. 34: Цветовыделение синтаксиса

## **Выводы по проделанной работе**

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В данной работе мы ознакомились с инструментами поиска файлов и фильтрации текстовых данных. А также приобрели практические навыки по управлению процессами.