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# Calendar Management System in C

A command-line tool for managing calendars, events, and to-do lists.

## **Application Overview**

This C-based application allows users to view monthly calendars, add, view, and delete events, and manage a personal to-do list. It is built using standard C libraries like stdio.h, string.h, and time.h.

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### Calendar Feature

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### **User Input**

Users enter the desired year and month.

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#### **Date Calculation**

Logic calculates total days since year 0 and checks for leap years.

3

### **Structured Output**

Prints a clear, structured monthly calendar.

Key functions include main2(), checklp(), calcTotalDays(), and printCalendar().



# **Event Management**

#### **Add Event**

Users input date and notes; past dates are restricted.

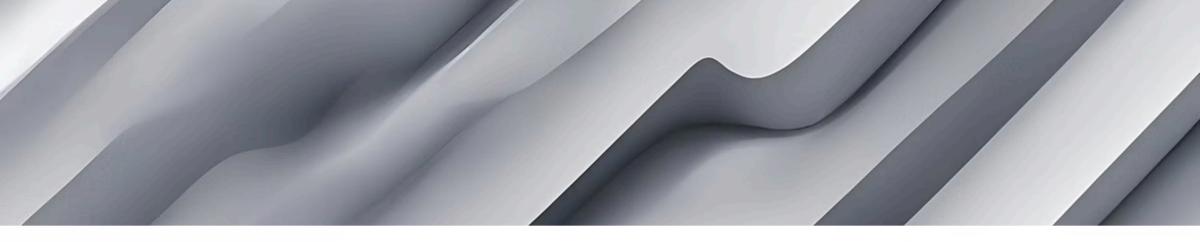
#### **View Event**

Displays all events stored in event.txt.

#### **Delete Event**

Removes a specific event by date.

Utilizes file handling functions (fopen, fprintf, fgets) for data storage and retrieval.



### **To-Do List Feature**

Add Task

Stores new tasks in todo.txt.

Mark Task Complete

Moves tasks to complete.txt and removes them from the pending list.

**View Tasks** 

Reads and lists all pending tasks.

**View Completed Tasks** 

Displays all tasks marked as done.



# **Code Structure & Modularity**





### **Separate Functions**

Each feature is implemented with dedicated functions for clarity.

#### Menu-Driven UI

Clean and intuitive user interface using loops and switch cases.

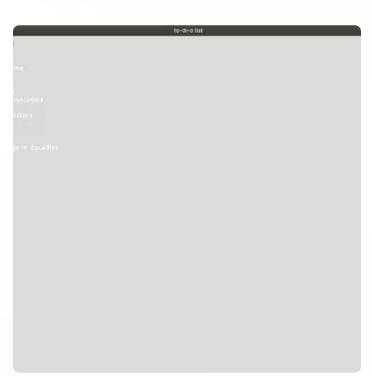


### File Handling

Effective use of structures and file operations for data persistence.

## Sample Output

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Visual examples of the text-based calendar, added/viewed events, and to-do list outputs.

# **Conclusion & Future Scope**

This system is an excellent learning tool for beginners in C, demonstrating file handling and modular programming principles.

#### **Future Enhancements**

- Graphical User Interface (GUI)
- Event reminders
- Recurring events

