

Appointment Organizer G01

21°

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01

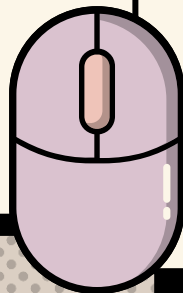
Introduction

What is appointment Organizer



Appointment Organizer

An appointment scheduling application that helps users manage their time with higher efficiency



Product Features



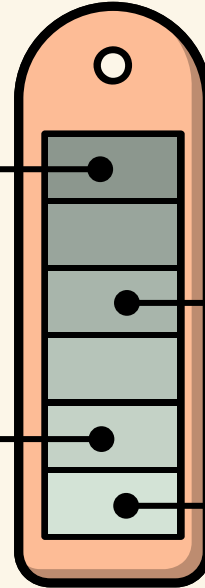
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Time management

Create Schedule Report
For different users
To help them do the time
management

Reschedule

Automatically check whether
the users are available, and
help the user to design a
different kinds of reschedule



Security

Each users are processed
separately, no permission to
change other users' data

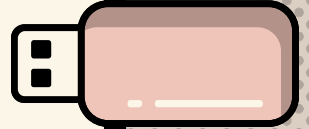
Notification

The Successful scheduled
appointment will be auto
sent to other callers

02

Our Services

How APO in group 1 help you improve your timing





Our Services



**Create
appointment**



**Calling other
Users**



**Report your
Schedule**



**Provide different solution
for arrangement
conflicts**

Our Technology

- **Born with speed, accuracy and efficiency**
 - Concurrently Running Processes
 - Perfect Pipe Implementation
 - Detailed Control over processes
- **Cutting-edged Implementation Concept**
 - Mutual Exclusion, Synchronization
 - protect the completeness and safety
- **Ultimate Tool for Scheduling Your Life**

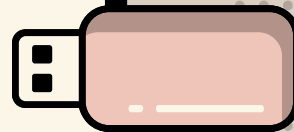
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User Guide



How to set up and begin the application



>>>>>

SetUP

Device: Command Line

Running Environment:
Apollo / Apollo 2

Source Code: [G01_APO.c](#)

Testing File:
G01_tests.dat
file G01_tests_4.dat
G01_tests_4_400.dat
G01_tests_10_1000.dat

Meet us



>>>>

Initialization

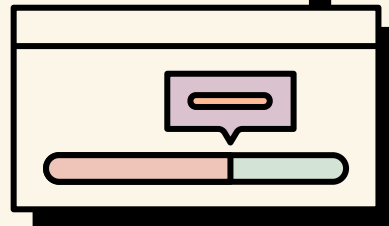
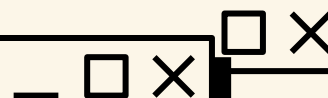
It can be assumed that there are 3 to 10 users in total.

20230501 refers to the year 2023 on May day 1st. (start date)

20230531 refers to the year 2023 and May day 31th. (end date)

```
21094724d-apollo:home:/21094724d$ gcc G01_APO.c -o apo  
./apo 20230501 20230531 john mary paul lucy lisa mike michael lily james robert
```

Meet us





21°

>>>>



~~~  
WELCOME TO APO~~~  
Please enter appointment:

~~~~~  
.....

Begin to enter your command or appointment



Batch Input

file G01_tests.txt

- gathering mary 20230529 2100 1.0 lisa john michael lily paul
- privateTime john 20230523 2000 3.0
- projectMeeting lucy 20230509 1800 1.0 michael lily mike mary paul john
- projectMeeting paul 20230509 1900 4.0 michael lily lisa james robert lucy mike
- groupStudy mary 20230527 2000 3.0 lisa
- privateTime robert 20230517 1800 2.0
- groupStudy james 20230504 1800 5.0 michael lily robert mary lisa lucy mike •••••

~~~~~  
>>>>>





# Key Words Meaning



## privateTime

The private time is a kind of individual activity, for the user to arrange her or his own time slots.

## groupStudy

The group study is a kind of group activity for the user as a caller to arrange group study and call the other included callees.

## projectMeeting

The project meeting is a kind of group activity for the user as a caller to arrange project meeting and call the other included callees.

## gathering

The gathering is a kind of group activity for the user as a caller to arrange group study and call the other included callees.

## printSchd

It is used to print the time table and the rejected list after being processed by different algorithms.

## endProgram

Leave the program



# Key Words Format

**[privateTime]**:command type  
**[uuu]** - the name of the caller     ~~~~~  
**[YYYYMMDD]** - the date of the event     .....  
**[hhmm]** the start time of the event  
**[n.n]**Duration

## privateTime

privateTime uuu YYYYMMDD hhmm n.n  
e.g.:  
privateTime paul 20230401 1800 2.0

## groupStudy

groupStudy uuu YYYYMMDD hhmm n.n  
u1 u2 ... e.g. groupStudy paul 20230403  
1800 2.0 john lucy

## projectMeeting

projectMeeting uuu YYYYMMDD hhmm  
n.n u1 u2...  
e.g. projectMeeting john 20230402 1900 2  
paul mary

## gathering

gathering uuu YYYYMMDD hhmm n.n u1  
u2 ... e.g. gathering lucy 20230404 1900  
4.0 john paul mary

## printSchd

gathering uuu YYYYMMDD hhmm n.n u1  
u2 ... e.g. gathering lucy 20230404 1900  
4.0 john paul mary

## endProgram

endProgram



# Technology



## FCFS

the processes are executed in the order they arrive in the ready queue.

## Priority

It assigns a priority to each process by private time/project meeting/group study/gathering, and the process with the highest priority is executed first.

## NEW

### Long Job First + Autoreschedul Short Jobs

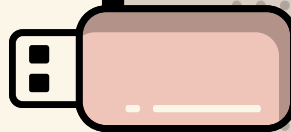
Sorting the appointments based on their duration value, then using **First-Fit** automatically rescheduling the rest appointments.

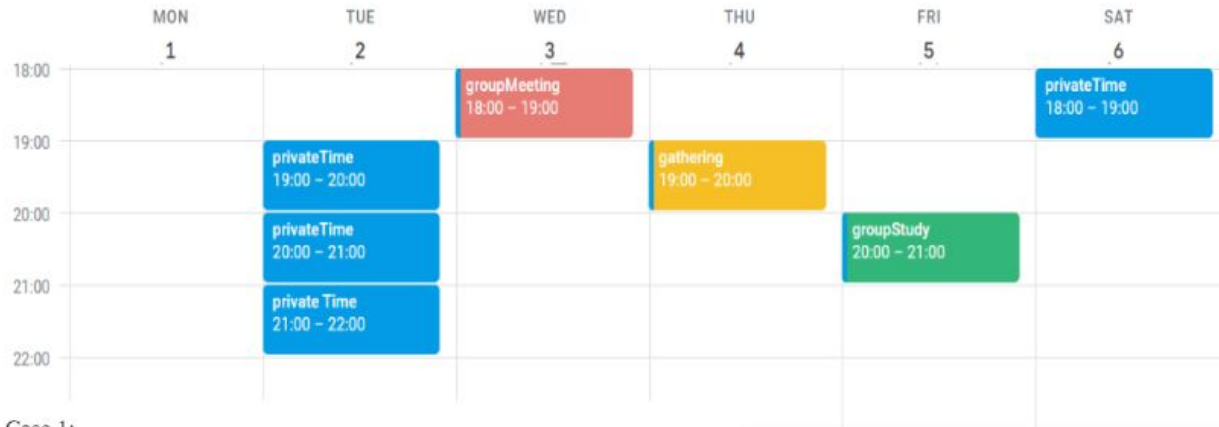


04

# Demo

How the program works



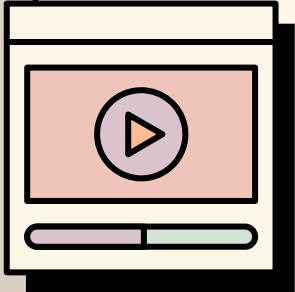


Case 1:

- 1.New Request: `groupMeeting lucy 20230501 1900 2.0 john mary`
- 2.checking timetable:  
if `available` → schedule new events  
if `not` → reject this event
- 3.No in this case: then reject

Case 2: New requests:

`gathering john 20230502 2100 1.0 mary lucy`  
checking timeable  
`yes` in this case, then accept



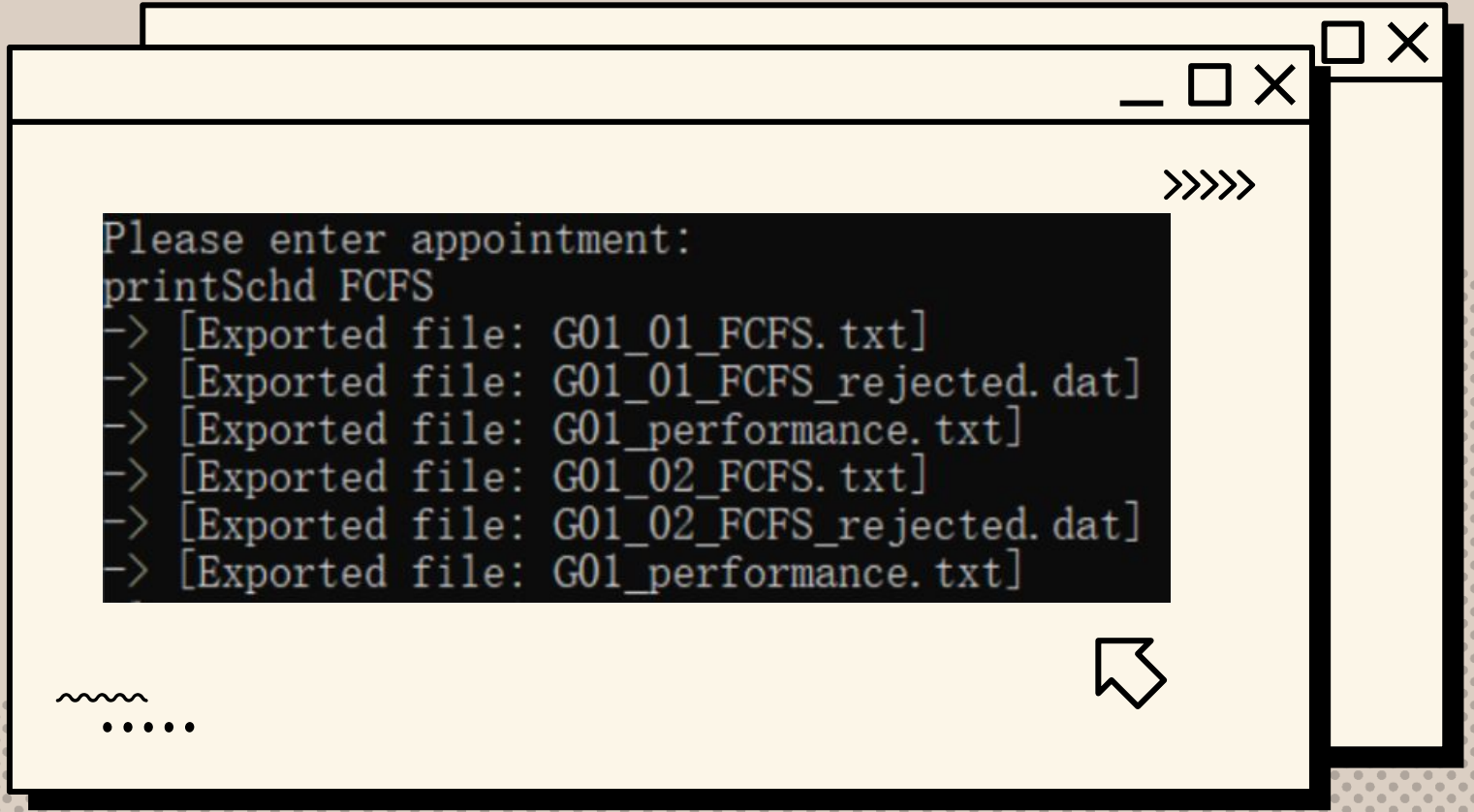
21094724d-apollo:home:/21094724d\$ gcc G01\_APO.c -o apo  
./apo 20230501 20230531 john mary paul lucy lisa mike michael lily james robert

>>>>>

```
~~~~~  
WELCOME TO APO~~~~~
Please enter appointment:
privateTime paul 20230401 1800 2.0
-> [Recorded]
```

```
Please enter appointment:
file G01_tests100.dat
G01_tests100.dat
-> [Recorded]
-> [Recorded]
-> [Recorded]
-> [Recorded]
-> [Recorded]
-> [Recorded]
-> [Recorded]
-> [Recorded]
-> [Recorded]
-> [Recorded]
-> [Recorded]
-> [Recorded]
-> [Recorded]
-> [Recorded]
```







Original Schedule

>>>>

Period: 2023-05-01 to 2023-05-31  
Algorithm used: FCFS

\*\*\*Appointment Schedule\*\*\*

. John, you have 10 appointments.

| Date       | Start | End   | Type           | People                                  |
|------------|-------|-------|----------------|-----------------------------------------|
| 2023-05-05 | 19:00 | 22:00 | groupStudy     | Lucy Mike                               |
| 2023-05-08 | 19:00 | 20:00 | projectMeeting | Mary Lucy Lisa Mike Michael Lily Robert |
| 2023-05-09 | 18:00 | 19:00 | projectMeeting | Mary Paul Lucy Mike Michael Lily        |
| 2023-05-12 | 20:00 | 22:00 | privateTime    |                                         |

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Improved Schedule

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Period: 2023-05-01 to 2023-05-31  
Algorithm used: FCFS

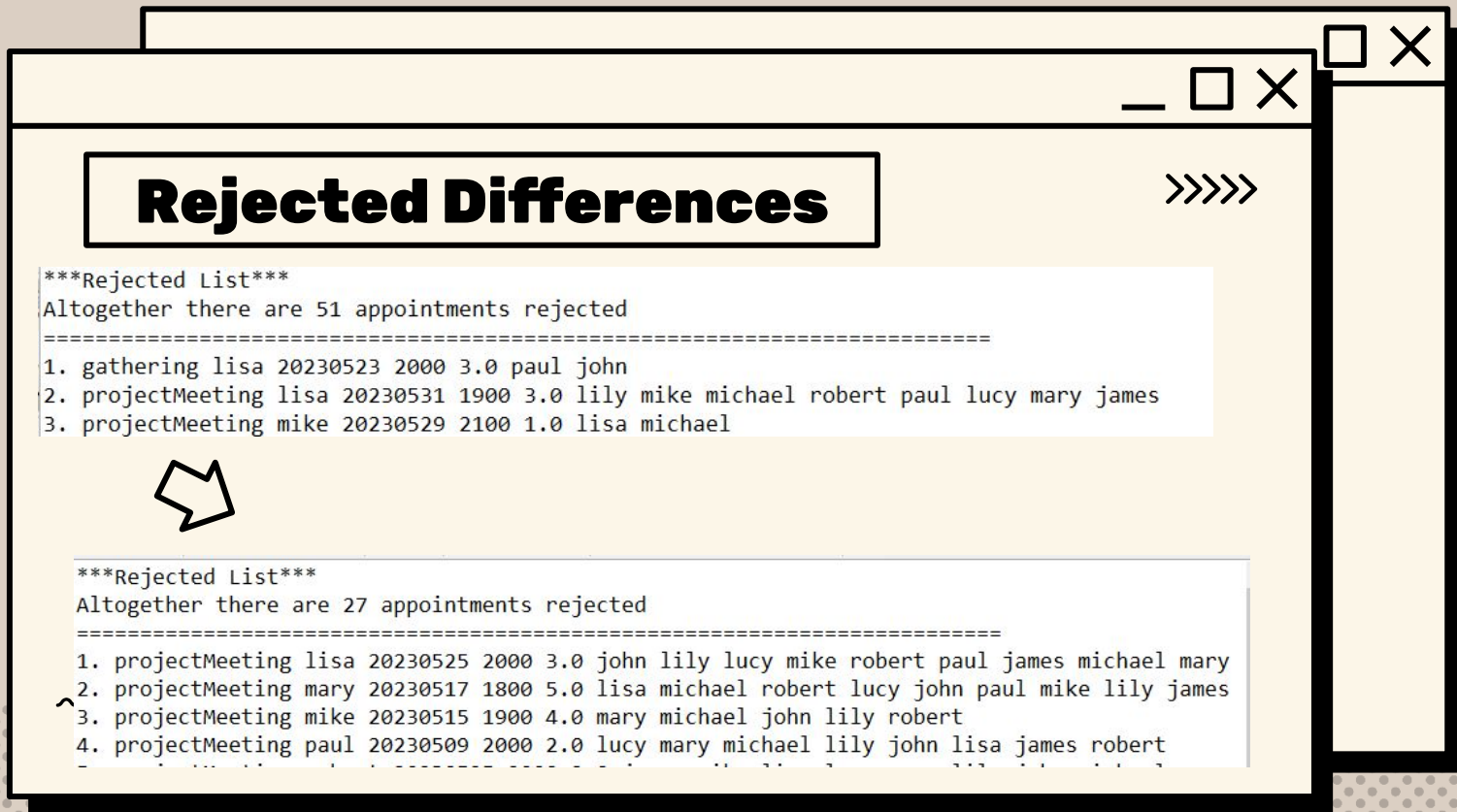
\*\*\*Appointment Schedule\*\*\*

. John, you have 22 appointments.

| Date       | Start | End   | Type           | People                                    |
|------------|-------|-------|----------------|-------------------------------------------|
| 2023-05-01 | 18:00 | 21:00 | gathering      | Paul Lisa                                 |
| 2023-05-01 | 22:00 | 23:00 | groupStudy     | Mary Paul Lisa Mike Michael Lily James Ro |
| 2023-05-02 | 18:00 | 21:00 | projectMeeting | James                                     |
| 2023-05-02 | 22:00 | 23:00 | groupStudy     | Paul Lucy Michael Robert                  |
| 2023-05-03 | 18:00 | 20:00 | projectMeeting | Lucy Lisa Mike Robert                     |

~~~~~

.....







```
Total Number of Requests Received: 100
Number of Requests Accepted: 67 (67.00%)
Number of Requests Rejected: 33 (33.00%)
```





# Thanks!!!

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