



B2- Synthesis Pool

B-ADM-144

Meeting Calendar

a meeting calendar manager





Requirement

my_revlist_synthesis, my_findnodeeqinlist_synthesis

Write a c file named requirement.c that contains the following two functions and the following structure (directly defined in the c file):

my_revlist_synthesis Using only pointer manipulation, write a function that reverses the order of the elements on the list. It should be prototyped the following way:

```
int my_revlist_synthesis(t_list **begin);
```

my_findnodeeqinlist_synthesis Write a function that returns the address of the first node that contains data equal to the reference data. It should be prototyped the following way:

```
t_list *my_findnodeeqinlist_synthesis(t_list *begin, void *data_ref, int (*cmp)(void*, void*));
```



The **cmp** function could be **my_strcmp** for instance; the elements are only considered equal if cmp returns 0



Only malloc and free are allowed from libC.

The rest of the project will not be corrected unless this requirement is fully functional (and rewritten).



The file must be placed at the root of your git repository. It will be compiled with our main function, and our Makefile (the -I flag being empty).





Meeting Calendar

a meeting calendar manager

binary name: calendar

repository name: ADM_calendar_\$YEAR

repository rights: ramassage-tek

language: C group size: 1

compilation: via Makefile, including re, clean and fclean rules



- Your repository must contain the totality of your source files, but no useless files (binary, temp files, obj files,...).
- All the bonus files (including a potential specific Makefile) should be in a directory named bonus.
- Error messages have to be written on the error output, and the program should then exit with the 84 error code (O if there is no error).

Authorized functions: every functions from the libC

The goal of this project is to create a professional calendar, including employees and meetings management.

The program reads instructions on the standard input.

The authorized instructions are:

- 1. new_employee name forename job zipcode id
- 2. new_meeting place date id idEmployee1 idEmployee2 [idEmployee3]
- 3. invite idMeeting idEmployee1 [idEmployee2]
- 4. exclude idMeeting idEmployee1 [idEmployee2]
- 5. info_employees sortByE [idEmployee1]
- 6. info_meetings sortByM [idMeeting1]
- 7. cancel idMeeting1 [idMeeting2]
- 8. fire idEmployee1 [idEmployee2]
- 9. END





sortByE can take the following values:

- 1. sortByName to sort by name (then forename, then id) in ascending order
- 2. sortByForename to sort by forename (then name, then id) in ascending order
- 3. sortByJob to sort by position (then name, then forename, then id) in ascending order
- 4. sortByZip to sort by zipcode (then name, then forename, then id) in ascending order
- 5. sortByld to sort by id in ascending order

sortByM can take the following values:

- 1. sortByDate to sort by date (the id) in ascending order
- 2. sortByZip to sort by zipcode (the id) in ascending order
- 3. sortByld to sort by id in ascending order



The meetings a given employee is registered to are printed in compliance with <code>sortByDate</code>, then with <code>sortByZip</code>.

The meeting attendees are always printed in compliance with sortByName



A meeting with only one person (or less...) must be cancelled!



Any invalid instruction should be ignored without triggering an error.

The only valid date format is dd/mm/yyyy.

Fired employees and cancelled meetings must be skipped.

None of these cases triggers an error.







Your program output has to be strictly identical to the one below.

```
Terminal
√/B-ADM-144> cat input
new_employee Hasselhoff David PDG F-13000 1
new_employee Anderson Pamela DDR F-31000 2
new_employee LeeNolin Gena DDR F-94270 3
new_employee Charvet David DPR F-54000 4
new_meeting F-59330 14/04/2034 10 1 2
new_meeting F-67100 13/04/2034 11 1 3
invite 10 3
invite 11 4 1 3 2
exclude 10 1
fire 4
info_meetings sortByDate 10 11
info_employees sortByName 2 4
info_employees sortByFootSize 2 3
info_employees sortByZip 2 3
\sim/B-ADM-144> ./calendar 2>\dev\null <input
**********
MEETING
date: 13/04/2034
place: F-67100
with Pamela Anderson, David Hasselhoff, Gena LeeNolin
**********
MEETING
date: 14/04/2034
place: F-593<u>30</u>
with Pamela Anderson, Gena LeeNolin
*********
Pamela Anderson
position: DDR
city: F-31000
meeting on 13/04/2034, F-67100, with David Hasselhoff, Gena LeeNolin
meeting on 14/04/2034, F-59330, with Gena LeeNolin
*********
Pamela Anderson
position: DDR
city: F-31000
meeting on 13/04/2034, F-67100, with David Hasselhoff, Gena LeeNolin
meeting on 14/04/2034, F-59330, with Gena LeeNolin
******
Gena LeeNolin
position: DDR
city: F-94270
meeting on 13/04/2034, F-67100, with Pamela Anderson, David Hasselhoff
meeting on 14/04/2034, F-59330, with Pamela Anderson
```





```
Terminal
                                                                               - + X
√/B-ADM-144> cat input
new_employee Hasselhoff David PDG F-13000 1
new_employee Anderson Pamela DDR F-31000 2
new_employee LeeNolin Gena DDR F-94270 3
new_employee Charvet David DPR F-54000 4
new meeting F-57000 25/12/2034 10 1 2 3 4
new_meeting F-13000 01/05/2034 11 1 4
new_meeting F-46800 01/05/2034 12 1 3
fire 4
info_employees sortByName
END
\sim/B-ADM-144> ./calendar 2>\dev\null < input
*********
Pamela Anderson
position: DDR
city: F-31000
meeting on 25/12/2034, F-57000, with David Hasselhoff, Gena LeeNolin
*********
David Hasselhoff
position: PDG
city: F-13000
meeting on 01/05/2034, F-46800, with Gena LeeNolin
meeting on 25/12/2034, F-57000, with Pamela Anderson, Gena LeeNolin
*********
Gena LeeNolin
position: DDR
city: F-94270
meeting on 01/05/2034, F-46800, with David Hasselhoff
meeting on 25/12/2034, F-57000, with Pamela Anderson, David Hasselhoff
```

