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list.h

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// Name: Rodrigo Ignacio Rojas Garcia
// Course Number: ECE 2230
// Section: 001
// Semester: Spring 2017
// Assignment Number: 2
#ifndef LIST H
#define LIST_H
typedef struct list *list_t;
typedef void *data_t;
typedef int (*cmpfunc)(data_t, data_t);
/* create a new empty list */
list_t list_init();
/* insert at head of list */
int list_insert(list_t, data_t);
/* append to tail of list */
int list_append(list_t, data_t);
/st find and sets current item using callback compare function st/
data_t list_find(list_t, data_t, cmpfunc);
/* return item at head of list, set current item */
data_t list_first(list_t);
/* return next item after current item */
data_t list_next(list_t);
/* return prev item before current item */
data_t list_prev(list_t);
/* return item at tail of list, set current item */
data_t list_last(list_t);
/* before current item */
int list_insert_before(list_t, data_t);
/* after current item */
int list_insert_after(list_t, data_t);
/* remove current item */
int list_remove(list_t);
/* free all resources allocated by the list */
int list_finalize(list_t);
#endif
```

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