List.c File Reference

#include "List.h"

Functions

```
List * newList (compFun cmpfn, prFun dspfn)

void delList (List *list)

status nthInList (List *list, int nidex, void **elem)

status addListAt (List *list, int index, void *elem)

status remFromListAt (List *list, int index, void **out)

status remFromList (List *list, void *elem)

status displayList (List *list)

void forEach (List *list, void(*pFun)(void *))

int lengthList (List *list, void *elem)

Node * isInList (List *list, void *elem)
```

Function Documentation

```
status addList ( List * ,
void *
)
```

add given element to given list according to comparison function.

Parameters

Insert element at a given position in the list.

Parameters

```
void delList ( List * )
```

destroy the list by deallocating used memory.

Parameters

```
status displayList ( List * )
```

display list the elements according to display function provided during list creation

Parameters

sequentially call given function with each element of given list (O(NxF)).

Parameters

```
Node* isInList ( List * ,
void *
)
```

tests whether the list contains given element.

Parameters

```
int lengthList ( List * )
```

compute and return the number of elements in given list.

Parameters

Empty List creation by dynamic memory allocation.

Parameters

get the Nth element of the list.

Parameters

```
status remFromList ( List * ,
void *
)
```

remove given element from given list. user should provide a comparison function during list creation.

Parameters

remove the element located at a given position in list.

Parameters

Generated by @@XY/@@j 1.8.11