

Solution to problem 1.5 M-J. Dominus

Here's a good solution.

Instead of passing the list functions a pointer to the head node of the list they're supposed to operate on, pass them a pointer to an auxiliary structure. The auxiliary structure will contain pointers to the head and tail nodes of the list, and maybe even some other information. For example:

One of these per list

```
struct list {
    struct listnode *head;      /* Always points to first node in list */
    struct listnode *tail;     /* Always points to last node in list */
} ;
```

One of these per list node

```
struct listnode {
    char *data;
    struct listnode *next;
} ;                               /* List nodes */
```