

```
1: #include <stdio.h>
2: #include <stdlib.h>
3: #include <assert.h>
4:
5: struct node {
6:     int data;
7:     struct node *nextL;
8:     struct node *nextR;
9: };
10:
11: /* Defiend in some othert file */
12: extern struct node hdr;
13:
14: /* ADT interface functions */
15: void init();
16:
17: void joinL(int d);
18: void joinR(int d);
19:
20: int leaveL();
21: int leaveR();
22:
23: int size();
```