

Direct Access File Implementation Of Doubly Linked List

DA-DLList - "Divide & Conquer"

Dr. Thomas E. Hicks

Open Existing Files Hicks-Num.hf and Hicks-Num.nf

```

DA_DLList <ListHeader, int>
    Num ("Hicks-Num.hf", "Hicks-Num.nf");
    Num.Display("----> Existing Hicks-Num");
    
```

```

----> Existing Hicks-Num
=====
|                               Front |                               Rear |
=====
3 |                               0 |                               0 |
=====
2 |                               5 |                               10 |
=====
1 |                               1 |                               4 |
=====
0 |                               0 |                               0 |
=====

| Left |                               Info |                               Del | Right |
-----
12 |  0 |                               5 | T |  0 |
-----
11 | 12 |                               4 | T | 12 |
-----
10 |  7 |                               1010 | F |  0 |
-----
9 | 10 |                               2 | T | 11 |
-----
8 |  9 |                               1 | T |  9 |
-----
7 |  6 |                               1010 | F | 10 |
-----
6 |  5 |                               1010 | F |  7 |
-----
5 |  0 |                               1010 | F |  6 |
-----
4 |  3 |                               890 | F |  0 |
-----
3 |  2 |                               567 | F |  4 |
-----
2 |  1 |                               234 | F |  3 |
-----
1 |  0 |                               1 | F |  2 |
-----
| 11 |                               3 | T |  8 |
-----
Avail = 8

<Hit Carriage Return To Continue>
    
```

Open Existing Files Hicks-Num.hf and Hicks-Num.nf - Header>1-> List

```

DA_DLList <ListHeader, int>
    Num ("Hicks-Num.hf", "Hicks-Num.nf");
    
```

```
Num.DisplayList (1, "\n\nHicks-Num->Header 1");
```

Hicks-Num->Header 1

```

=====
|                               Front |                               Rear |
=====
1 |                               1 |                               4 |
=====
| Left |                               Info | Del | Right |
=====
1 | 0 |                               1 | F | 2 |
=====
2 | 1 |                               234 | F | 3 |
=====
3 | 2 |                               567 | F | 4 |
=====
4 | 3 |                               890 | F | 0 |
=====

```

Open Existing Files Hicks-Num.hf and Hicks-Num.nf - Header>2-> List

```

DA_DLLList <ListHeader, int>
    Num ("Hicks-Num.hf", "Hicks-Num.nf");
    Num.DisplayList (2, "\n\nHicks-Num->Header 2");

```

Hicks-Num->Header 2

```

=====
|                               Front |                               Rear |
=====
2 |                               5 |                               10 |
=====
| Left |                               Info | Del | Right |
=====
5 | 0 |                               1010 | F | 6 |
=====
6 | 5 |                               1010 | F | 7 |
=====
7 | 6 |                               1010 | F | 10 |
=====
10 | 7 |                               1010 | F | 0 |
=====

```

Open Existing Files Hicks-Num.hf and Hicks-Num.nf - Header>3-> List

```

DA_DLLList <ListHeader, int>
    Num ("Hicks-Num.hf", "Hicks-Num.nf");
    Num.DisplayList (3, "\n\nHicks-Num->Header 3");

```

Hicks-Num->Header 3

```

=====
|                               Front |                               Rear |
=====
3 |                               0 |                               0 |
=====

```