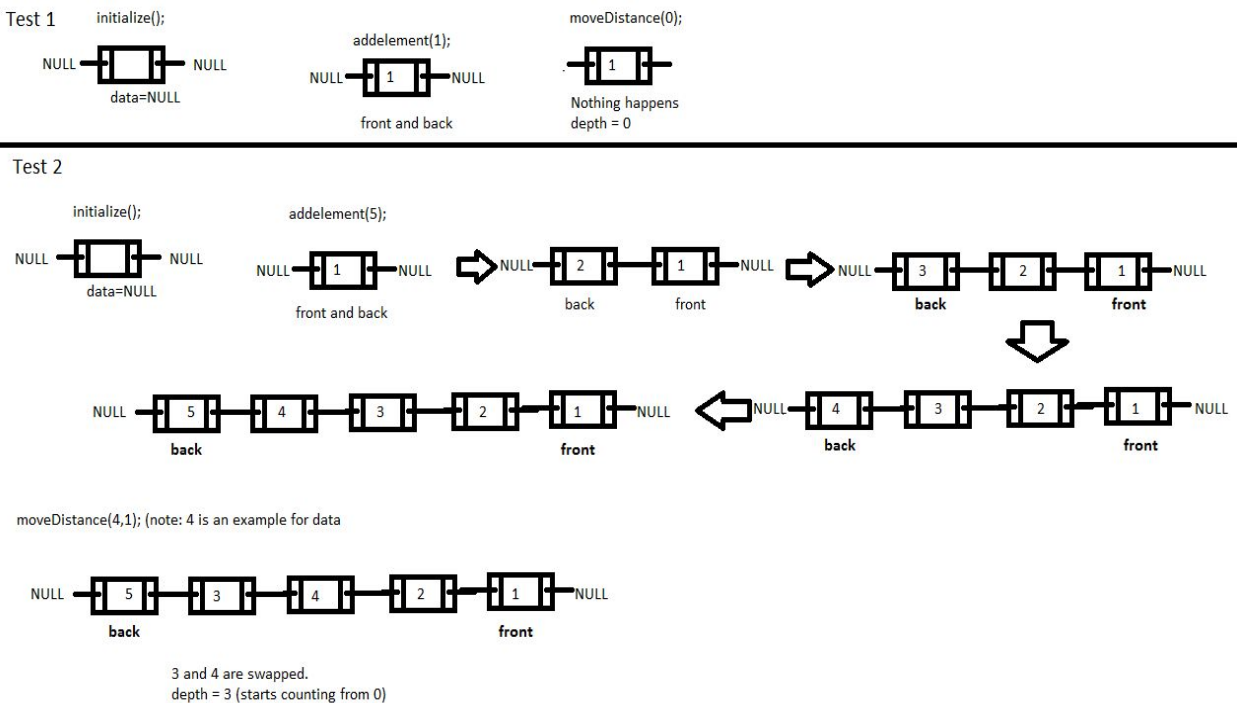


Deliverables for C exercise 3: Doubly-Linked List

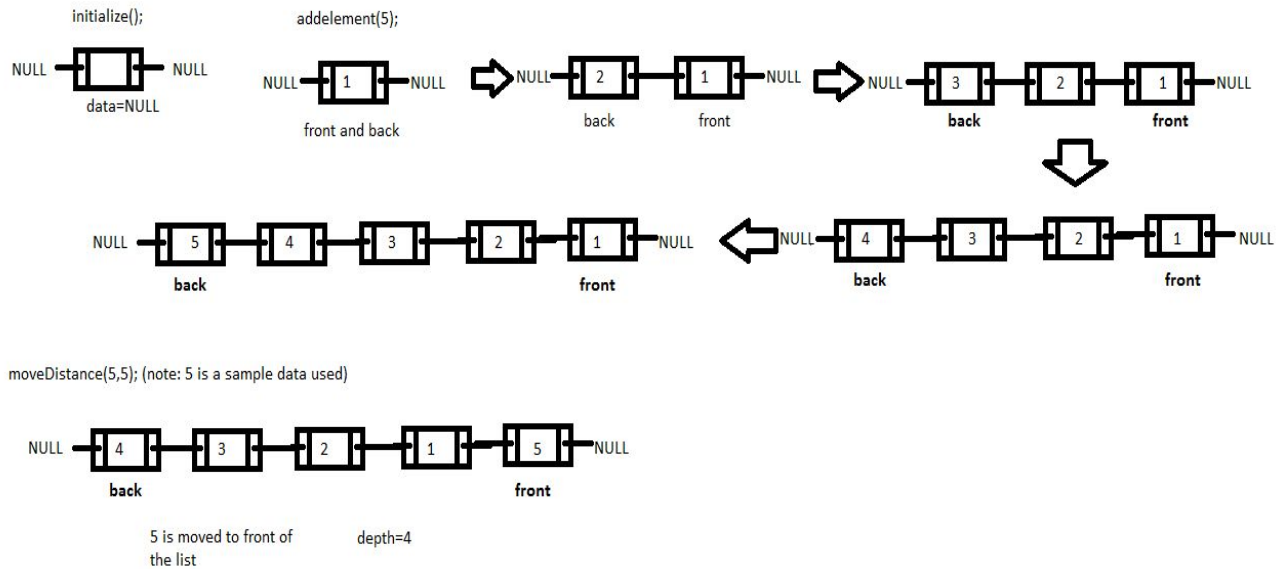
Screenshot running ex3test.c

```
shell.seas.gwu.edu - PuTTY
-bash-3.2$ gcc -o ex3 ex3test.c ex3.c uniform.c -lm
-bash-3.2$ ./ex3
Test 1: 1 element
  Listsize=1 numTrials=1 moveDistance=0  avgSearchDistance=1.000000
Test 2: 5 elements
  Listsize=5 numTrials=1 moveDistance=0  avgSearchDistance=3.000000
Test 3: 5 elements
  Listsize=5 numTrials=1 moveDistance=5  avgSearchDistance=3.000000
Test 4: 10 elements
  Listsize=10 numTrials=10000 moveDistance=0  avgSearchDistance=6.469900
Test 5: 10 elements, moveDist=1
  Listsize=10 numTrials=10000 moveDistance=1  avgSearchDistance=6.513500
Test 6: 10 elements, moveDist=10
  Listsize=10 numTrials=10000 moveDistance=10 avgSearchDistance=5.487300
Test 7: 10 elements, zipf
  Listsize=10 numTrials=10000 moveDistance=0  avgSearchDistance=8.578800
Test 8: 10 elements, zipf, moveDist=1
  Listsize=10 numTrials=10000 moveDistance=1  avgSearchDistance=8.559800
Test 9: 10 elements, zipf, moveDist=10
  Listsize=10 numTrials=10000 moveDistance=10 avgSearchDistance=4.341300
-bash-3.2$
```

Visualisation of tests 1, 2, & 3 in ex3test.c



Test 3



Average search depth for lists of 10 elements:

Movedistance 0, uniform=true	- 6.469900
Movedistance 1, uniform=true	- 6.513500
Movedistance 10, uniform=true	- 5.487300
Movedistance 0, uniform=false	- 8.578800
Movedistance 1, uniform=false	- 8.559800
Movedistance 10, uniform=false	- 4.341300