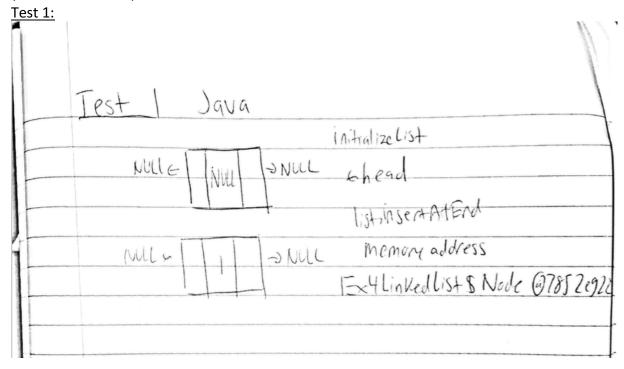
Exercise 4: PDF drawings of the list at each stage of insertion and list adjustment. (Linked List in Java)



Test 2:
Java
Test 2
null & Null - all numbers are
String
Nulle ["I"] - ANI
1416 116 15 page 2 3 pv11
NUIE ["1" 12 [2"] 2"] 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
NUME [1] 5 2 5 3 12 9 11 2 11
NULLE 121 5
memory adovesses valve & efstars
EXYLIANDE @4e2SIB4f 1
EXPLINATION OF CONTROL 2 EXPLINATION OF CONTROL 2
EXPLINATION NOTE CONSIGNATED 3
EXIGNER GO NEDE 35969752 4
EXPLINED 15 Nota 55 + 96302 5
search distance = 3
search distance = 3 muce distance = 0 Su memory addresses and list are not
Apre distance 20 Su memory addresses our is.
(honsen

Java Test-3 & same as Test-2 until altered except memory addresses
Jalue Memory Address Ex4LinkedList& Node@3d4eac 69 Ex4LinkedList& Node@42a 57993 Bx4LinkedList& Node@42a 57993 Bx4LinkedList& Node@42a 57993 Fx4LinkedList& Node@652 6627 Ex4LinkedList& Node@66627 Ex4LinkedList& Node@66627
position = 2 so value found is 2 move Distance= S note Till=12 2 3 12 4 2 5 7 7 mill
Memory address of the 2nd nede is supped with the memory address of the 1st rade

Average search depth for a list of 10 elements using various values of moveDistance in the range of 1 to 10.

<u>Using a list with 10 elements, 10 as the number of trials and values of moveDistance from 1 to</u> 7, here are the values for average search distance:

Move Distance	Average Search Distance
1	7.2
2	6.4
3	4.7
4	5.7
5	5.5
6	6.8
7	5.3

Code to prove above: (nearly identical to the values from the C version)

10 elements

Listsize=10 numTrials=10 moveDistance=1 avgSearchDistance=7.2 10 elements

Listsize=10 numTrials=10 moveDistance=2 avgSearchDistance=6.4 10 elements

Listsize=10 numTrials=10 moveDistance=3 avgSearchDistance=4.7 10 elements

Listsize=10 numTrials=10 moveDistance=4 avgSearchDistance=5.7 10 elements

Listsize=10 numTrials=10 moveDistance=5 avgSearchDistance=5.5 10 elements

Listsize=10 numTrials=10 moveDistance=6 avgSearchDistance=6.8 10 elements

Listsize=10 numTrials=10 moveDistance=7 avgSearchDistance=5.3