## UML Diagrams

3N'09

Int Node	card call go
- Nodes is increasingned.	Con di o
- data: Int	
- next Node: * Int Node	Moon nany
+ Int Node ()	- MiddleOne
+~IntNode()	OWT 3 MICHAEL TWO
+ Int Node (data: int)	
Friend Class IntList	
des is odd;	When noOf No

- Middle One

The some Logic applies

. 48'1	IntList of the state of the sta
	to a not painter
	- head: *Int Node
	- middle One: * Int Node
	- middle Tivo: * Int Node
	- tail: * IntNode
	- noof Nodes: int
•	
	+ Inelist()
	+~In+List()
	+ addIn+ (x:ine)! void
	+ remove Head(): Void
	+ PrintList (): Void

117.	70	1 1 1 1 2
add Int -9	It the	head doesn't exist, one is creat
	and all	pointers but middle two point Of Nodes is incramented.
	to 16. 110	OFTHOOR IS INCLUMENTED.
	when had	fNodes is even,
	Wilell 1100	11/00-0-10 Coch
	-> Middle O	ne doesn't change.
	-> MiddleTW	ne doesn't change. To is the next node from middle 0
		+ Int Node (dusce: int)
	Α	Priend Class Inthist
	When noOf	Nodes is odd,
	> Marting On	a to a series la che lice
		e is the next mode in the list.
	- Miodelwo	) is a null pointer
The same	Locair applies	to remove Head function,
1111 00 111	to give spring	- middle Two! * The Node
		Sholling William -
		- noof Nodes int
		T Indise ()
		t or Inchist ()
		+ dddIne(xine): yoid
		tioiv (Cloud Headl): vioid
		+ Princlise(): Void

	Testing: -> Test all functions with an empty lize.
	-> Test lists of both odd and even lengths
	or a combination of the two constructors
	Test the deconstructor to gurrantte it removes all the nodes.
	-> Attempt printing different lists, including on empty list.
7 3	