	Assignment 6 Design
	O O
	Binger Made LIMI Discours Control
	Binary Node UML Diagram
	+ BitFlip ()
	+ BicFiP (Lengen inte)
	Binary Node
	+ Bit Flip (Binary Mode")
	- binary: bool () president
	- binary: bool - next Node: Binary Node*
	+ Binary Node ()
	+ Binary Node () + Binary Node () + Binary Node () + Binary Node (bin book)
	+ Binary Node (bin: bool) - Friend class Individual
	- Friend class Individual
	Friend class BitFlip
	- friend class Rearrange
	TEGITANGE TO THE SAME AS TO THE SAME
	+ Regrange (1676761) ins)
	Individual UML Diagram
	Individual UML Diagram
	Individual Commons
	## Piace Alada : Dia Al La *
0	# length of List: int
	# lengen 0 + List: int
	+ Individual()
	+ Individual (length: int) + Individual (head: Binary Node*)
	+ Individual (head: Binary Node*)
	T~ Endividual()
	+ get String (): String
	+ get First Bit (): Binary Node *
	t get String (): String t get First Bit (): Binary Node* t set First Bit (new Head: Binary Node*): Void t get Max Ones (): in
	TO THAN OTED CJ. THE
	+ get Length(): int - Char Covert (input: String, index: int): bool
	- Char Covert (input: (1 mino index) int): Land
	+ Virtual execute (K:int): void

BitFlip UML Diagram

BitFlip ()

+ BitFlip (length: int)

+ BitFlip (input: string)

+ BitFlip (Binary Node*)

+ NBitFlip ()

+ execute (K: int): Void

Rearrange UNL Diagram

Rearrange

+ Rearrange ()
+ Rearrange (length: int)
+ Rearrange (input: String)
+ Rearrange (Binury Node*)
+ ~ Rearrange ()
+ ~ Rearrange ()
+ execute (t:int): Void

	Testing
	Individual
	- Each individual constructor heads to be tested - get Max Ones needs to be tested for large lengths and no length, length =0 - get Length also requires some but minimal testing as it is only an accessor. Will be used to test the frapper implementation of each constructor get String needs to be tosted using each different Constructor to both test get string and each constructor De Structor also requires testing to determine each node is deletted and can be done using a debugger.
	Bitflip
	- Execute needs testing vien a wide variety of inputs, empty, all 0's, all 1's.
	- The circular counting also requires rigorus testing.
	Rearrange
	- Execute needs testing especially if the input int is the length of the list, test large runge of input ints
	Binary Node
	- tics no functions so no testing required.