AD&DS Design String Reversal Two cuses: Even, odd Even: John - 2 iterations, length of string/2 Odd: why > 1 iteration, (length-1)/2 Have to have two different conditionals UML Diagram Palindrome + Palindrome () +~Palindrome() + reverse String (String): String + reverse String Actual (String, int): String + Char Switcher (& char, & char): void + Is Palindrome (&tring): 600) testing Test both odd and even length strings Test no string, empty string test small and large strings For palindrome checker! Use compare String function Testing

test both palindromes and non palindromes.

Fibonacci	
If the valves are o or I just return	them back.
Otherwise add two recursions, one being the other being two 1885. Simple.	ing one less
UML .	
Fibonacci	
+ Fibonalci()	
+ nfiboracic)	
+ gire Fibonaccic): int	
TOC I Van	
Desting	

Test I and O
Test large no. to see the upper limit.
Cun't accept decimals, only integers.

Efficent Fibonuci

Store already calculated volves in an array, fill with a regularive number for comparison purposes.

UML	Efficent Fibonaci
	- already Calculated []: int
	+ Efficent Fibonocci () + ~ Efficent Fibonocci ()
resting:	9 ive Fibonucci Cint): int

The same testing as normal fiobanacci.

Bring it ull together.
Testing,
Add exceptions for: No input

Churater instead of number for fibonacci Float fer fibonacci

Palindromes

Not Palindromes.
Vaniety 04 different valves for both
Palindrome and fibonaci.

All the above exceptions need to be tested.