Prac4 Design

Reverse:

Member variables:

Value: number input variable as intger.(int v)

String:string input variable as string (string s)

Methods:

Reversedigit() is the function for reverse digit with recursion

ReverString()is the function for reverse string with recursion

Reverse
-value:int -letters:string -newletters:char* -newvalue:int
+reverseDigit() +reverseString()

Fibonacci:

Member variables:

Number : integer variable input

Methods:

CalFibonacci() function for calculated Fibonacci
function with recursion

Fibonacci
-number:int
+int calFibonacci()

EfficientFibonacci:

Member variables:

Number : integer variable for input

a: integer variable for first Fibonacci number

b:integer variable for second Fibonacci number

EfficientFibonacci
-number:int
+int calEffFibonacci(int n,int a,int b)

Methods:

CalEffibonacci : calculate Fibonacci function and store the old data

Test:

TEST1:Input: 1 string 5 5

Output :1 gnirts 5 5

TEST2:Input: 1 strng w 6

Output:1 gnrns ERROR 5

TEST3:Input:-1 strng 2 2

Outlput: ERROR gnrts 1 1