Conversation with the customer:

Specifications Functional Specifications:

ıs:	collapse					
	Abstraction:	collapse collapses a number int	o a single digit that is the su	m of all the digits, repeatedly	y applied.	
	method	description				
	collapse	1				
	Invocation Prototype:		: collapse(value)			
			value connotes an input number. It is a string of an integer value .GE. 0 consisting of between 1 and 50 digits. Mandatory. Arrives unvalidated.			
,			collapse repeatedly sums to a string. For example:	he individual digits of a value	e until the sum consists of only one digit. It returns the su	um as
			value	calculation	result	
			'0'	0	'0'	
			'10'	1 + 0 =	'1'	
			'123'	1 + 2 + 3 =	'6'	
			'99'	9 + 9 = 18 => 1 + 8 =	'9'	
			'98769'	9+8+7+6+9=39 => 3+9=12	2 => 1+2= '3'	
	Desired behavior (errors):		Action		s its respective interface contract described above	
			Exit conditions		takes place once an error is discovered.	
		State change:	No state is retained or char			
		-	Samples that illustrate beha	-		
		•	Given:	collapse('0')		
			Result:	'0'		
			Given:	collapse('10')		
			Result:	1'		
			Given:	collapse('123')		
			Result:	'6'		
			Given:	collapse('99')		
			Result:	'9'		
			Given:	collapse('98769')		
			Result:	'3'		
			Given:	collapse(value='98769')		
			Result:	'3'		
Samples that illustrate behavior with anomolous input						
			Given:	collapse()		
			Result:	None	Rationale: No parameter was passed	
			Given:	collapse('a')		
			Result:	None	Rationale: The input parm was not a string of an integer	er
			Given:	collapse(1)		
			Result:	None	Rationale: The input parm was not a string of an integer	er