## Test Plan for CC\_Validation.asm

**Date**: Aug 4, 2024

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Return sum: 4	Credit Card Number	AddOdd	AddEven		Validate	
1x2 = 2   Second digit: 5   Second digit: 6   Return sum: 6   Returns VALI		Subroutine	Subroutine		Subroutine	
Second digit: 1   1   1   1   1   1   1   1   1   1	1115	First digit: 1	First digit: 1		4+6 = 10	
Second digit: 1   1x2 = 2   Return sum: 6   Returns VALI		1x2 = 2				
1x2 = 2			Second digit: 5		10 % 10 = 0	
Return sum: 4		Second digit: 1				
First digit: 7				Return sum: 6		Returns VALID
7x2 = 14						
MSB=1 LSB=4   Sum=5   Second digit: 3   20 % 10 = 0	7633	_	First digit: 6		11+9 = 20	
Sum=5   Return sum: 9   Returns VALID					22.44	
Second digit: 3   Second digit: 3   Second digit: 3   Second digit: 3   Second digit: 8   Second digit: 7   Second digit: 7   Second digit: 7   Tx2 = 14   Sum = 5   Second digit: 1   Second digit: 2   Second digit: 3   Second digit: 3   Second digit: 1   Second digit: 1   Second digit: 3   Second digit: 5   Second digit: 2   Second digit: 3   Second digit: 2   Second digit: 2   Second digit: 2   Second digit: 2   Second digit: 3   Second digit: 3   Second digit: 2   Second digit: 2   Second digit: 3   Second			Second digit: 3		20 % 10 = 0	
Second digit: 3   3x2 = 6   Return sum: 11		Sum=5		5.		D : 1/411D
8877   First digit: 8				Return sum: 9		Returns VALID
Return sum: 11   First digit: 8   8x2 = 16   Sum = 7   Second digit: 7   Z7 % 10 = 7   Return sum: 15   Return sum: 15   Return sum: 15   Second digit: 7   Tx2 = 14   Sum = 5   Return sum: 12   Second digit: 1   Z0 % 10 = 0   Return sum: 12   Second digit: 8   Sx2 = 16   Sum = 7   Return sum: 12   Second digit: 8   Sx2 = 16   Sum = 7   Return sum: 12   Second digit: 8   Sum = 9   Second digit: 3   Second digit: 5   Second digit: 2   Second digit: 3   Secon						
First digit: 8   8x2 = 16   Sum = 7   Second digit: 7   27 % 10 = 7						
8x2 = 16   Sum = 7   Second digit: 7   27 % 10 = 7	0077				12+15 - 27	
Second digit: 7 Second digit: 1 Second digit: 2 Second digit: 3 Second digit: 5 Second digit: 5 Second digit: 5 Second digit: 2	88//	_	riist uigit. o		12+15 - 27	
Second digit: 7			Second digit: 7		27 % 10 = 7	
7x2 = 14 Sum = 5 Return sum: 12  7781  First digit: 7 7x2 = 14 Sum = 5 Second digit: 1  Part digit: 9 Pax2 = 18 Sum = 9  Second digit: 3  Second digit: 5  Second digit: 5  Second digit: 5  Second digit: 2  Second digit: 2  Second digit: 2  Second digit: 2		Julii – 7	Second digit. 7		27 /0 10 - 7	
7x2 = 14 Sum = 5 Return sum: 12  7781  First digit: 7 7x2 = 14 Sum = 5 Second digit: 1  Part digit: 9 Pax2 = 18 Sum = 9  Second digit: 3  Second digit: 5  Second digit: 5  Second digit: 5  Second digit: 2  Second digit: 2  Second digit: 2  Second digit: 2		Second digit: 7	R	Return sum: 15		Returns INVALID
Return sum: 12		_				
First digit: 7 7x2 = 14 Sum = 5 Second digit: 1 20 % 10 = 0  Second digit: 8 8x2 = 16 Sum = 7 Return sum: 12  9803 First digit: 9 9x2 = 18 Sum = 9 Second digit: 3 Second digit: 0 Return sum: 9  First digit: 5 6x2 = 12 Sum: 3 First digit: 2 Second digit: 2 Second digit: 2  Return sum: 11		Sum = 5				
7x2 = 14 Sum = 5 Second digit: 1  Second digit: 1  Second digit: 8 8x2 = 16 Sum = 7 Return sum: 12  9803 First digit: 9 9x2 = 18 Sum = 9 Second digit: 3  Second digit: 3  Second digit: 3  Second digit: 5  First digit: 5  6x2 = 12 Sum: 3  Second digit: 2		Return sum: 12				
Sum = 5  Second digit: 1  Second digit: 8  8x2 = 16  Sum = 7  Return sum: 12  9803  First digit: 9  9x2 = 18  Sum = 9  Second digit: 3  Second digit: 3  Second digit: 3  Pirst digit: 9  Return sum: 9  Second digit: 0  Return sum: 9  First digit: 5  6x2 = 12  Sum: 3  Second digit: 2	7781	First digit: 7	First digit: 7		12+8 = 20	
Second digit: 8 8x2 = 16 Sum = 7 Return sum: 12  9803  First digit: 9 9x2 = 18 Sum = 9  Second digit: 3  Second digit: 3  Second digit: 3  Return sum: 11  Return sum: 9  First digit: 5  6502  First digit: 6 6x2 = 12 Sum: 3  Second digit: 2  Return sum: 8  Return sum: 8  Return sum: 8  P+11 = 20  9+11 = 20  90		7x2 = 14				
8x2 = 16 Sum = 7 Return sum: 12  9803 First digit: 9 9x2 = 18 Sum = 9 Second digit: 3  Second digit: 3  Return sum: 11 Returns VALI Return sum: 9  First digit: 6 6x2 = 12 Sum: 3 Second digit: 2  Return sum: 2  Second digit: 2  Return sum: 10  Return sum: 11 Returns VALI Return sum: 11 Returns VALI Retur		Sum = 5	Second digit: 1		20 % 10 = 0	
8x2 = 16 Sum = 7 Return sum: 12  9803 First digit: 9 9x2 = 18 Sum = 9 Second digit: 3  Second digit: 3  Return sum: 11 Returns VALI Return sum: 9  First digit: 6 6x2 = 12 Sum: 3 Second digit: 2  Return sum: 2  Second digit: 2  Return sum: 10  Return sum: 11 Returns VALI Return sum: 11 Returns VALI Retur						
Sum = 7 Return sum: 12  9803 First digit: 9 9x2 = 18 Sum = 9 Second digit: 3  Second digit: 3  Return sum: 11 Returns VALI Return sum: 9  First digit: 5 6x2 = 12 Sum: 3 Second digit: 2  Return sum: 10  Return sum: 11 Returns VALI Return sum: 11 Returns VALI Return sum: 11 Returns VALI Retur		_		Return sum: 8		Returns VALID
Return sum: 12         9803       First digit: 9 9x2 = 18 Sum = 9       First digit: 8 Second digit: 3       9+11 = 20 20 % 10 = 0         Second digit: 0 Return sum: 9       Return sum: 11 Returns VALI         6502       First digit: 6 6x2 = 12 Sum: 3       First digit: 5 Second digit: 2       3+7 = 10 10 % 10 = 0						
9803 First digit: 9 9x2 = 18 Sum = 9 Second digit: 3 20 % 10 = 0  Second digit: 0 Return sum: 9  First digit: 5 6502 First digit: 6 6x2 = 12 Sum: 3 Second digit: 2 10 % 10 = 0						
9x2 = 18 Sum = 9 Second digit: 3 20 % 10 = 0  Second digit: 0 Return sum: 9  First digit: 6 6x2 = 12 Sum: 3 Second digit: 2 10 % 10 = 0						
Second digit: 0  Return sum: 9  First digit: 6 6x2 = 12 Sum: 3  Second digit: 2  Second digit: 3  Return sum: 11  Return sum:	9803	_	First digit: 8		9+11 = 20	
Second digit: 0 Return sum: 9 Return sum: 11 Returns VALI  6502 First digit: 6					20.0/.40	
Return sum: 9  6502  First digit: 6 6x2 = 12 Sum: 3  First digit: 5 Second digit: 2  10 % 10 = 0		Sum = 9	Second digit: 3		20 % 10 = 0	
Return sum: 9  6502  First digit: 6 6x2 = 12 Sum: 3  First digit: 5 Second digit: 2  10 % 10 = 0		Second digit: 0		Poturn cum: 11		Poturne VALID
6502 First digit: 6 First digit: 5 $3+7 = 10$ $6x2 = 12$ Sum: 3 Second digit: 2 $10 \% 10 = 0$		_		Return sum: 11		Returns VALID
6x2 = 12 Sum: 3 Second digit: 2 10 % 10 = 0	6502				2±7 = 10	
Sum: 3 Second digit: 2 10 % 10 = 0	UJUZ	<del>_</del>	riist uigit. 5		3+7 - 10	
			Second digit: 2		10 % 10 = 0	
Second digit. 6 neturn sum. 7 neturns vali			_	Return sum: 7	10 /0 10 - 0	Returns VALID
Return Sum: 3		_		netarri surri. /		NCCAINS VALID