

Test Plan for CC_Validation.asm

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Credit Card Number	AddOdd Subroutine	AddEven Subroutine	Validate Subroutine
1115	First digit: 1 $1 \times 2 = 2$ Second digit: 1 $1 \times 2 = 2$ Return sum: 4	First digit: 1 Second digit: 5 Return sum: 6	$4 + 6 = 10$ $10 \% 10 = 0$ Returns VALID
7633	First digit: 7 $7 \times 2 = 14$ MSB=1 LSB=4 Sum=5 Second digit: 3 $3 \times 2 = 6$ Return sum: 11	First digit: 6 Second digit: 3 Return sum: 9	$11 + 9 = 20$ $20 \% 10 = 0$ Returns VALID
8877	First digit: 8 $8 \times 2 = 16$ Sum = 7 Second digit: 7 $7 \times 2 = 14$ Sum = 5 Return sum: 12	First digit: 8 Second digit: 7 Return sum: 15	$12 + 15 = 27$ $27 \% 10 = 7$ Returns INVALID
7781	First digit: 7 $7 \times 2 = 14$ Sum = 5 Second digit: 8 $8 \times 2 = 16$ Sum = 7 Return sum: 12	First digit: 7 Second digit: 1 Return sum: 8	$12 + 8 = 20$ $20 \% 10 = 0$ Returns VALID
9803	First digit: 9 $9 \times 2 = 18$ Sum = 9 Second digit: 0 Return sum: 9	First digit: 8 Second digit: 3 Return sum: 11	$9 + 11 = 20$ $20 \% 10 = 0$ Returns VALID
6502	First digit: 6 $6 \times 2 = 12$ Sum: 3 Second digit: 0 Return Sum: 3	First digit: 5 Second digit: 2 Return sum: 7	$3 + 7 = 10$ $10 \% 10 = 0$ Returns VALID

INVALID = 1

VALID = 5