

# Steps to validate a credit card number

Step	Numbers in Array
1. Remove the last digit of the array (Do NOT alter original array).	4 5 3 9 6 8 9 8 8 7 7 0 5 7 9 8
2. Reverse the array (without the last digit removed from the previous step).	9 7 5 0 7 7 8 8 9 8 6 9 3 5 4
3. Multiple the odd digits by 2.	x2 x2 x2 x2 x2 x2 x2 x2
3.5 Subtract 9 from numbers bigger than 9.	-9 -9 -9 -9 -9 -9 -9 -9
4 Add up all the numbers in the array.	9 + 7 + 1 + 0 + 5 + 7 + 7 + 8 + 9 + 8 + 3 + 9 + 6 + 5 + 8 = 92
4.5 Add the total and dropped digit from Step 1. If the sum module 10 is 0, then the array contains a valid number.	(92 + 8) % 10 = 0 ✓