Homework: Credit Card Validation

You're starting your own credit card business. You've come up with a new way to validate credit cards with a simple function called `validateCreditCard` that returns `true` or `false`.

Here are the rules for a valid number:

- Number must be 16 digits, all of them must be numbers
- You must have at least two different digits represented (all of the digits cannot be the same)
- The final digit must be even
- The sum of all the digits must be greater than 16

The following credit card numbers are valid:

- `9999-9999-8888-0000`
- `6666-6666-6666-1666`

The following credit card numbers are invalid:

- `a923-3211-9c01-1112` *invalid characters*
- `4444-4444-4444-4444` *only one type of number*
- `1111-1111-1111-1110` *sum less than 16*
- `6666-6666-6666-6661` *odd final number*

Hint: Remove the dashed from the input string before checking if the input credit card number is valid.

Bonus: Return an object indicating whether the credit card is valid, and if not, what the error is

```
{ valid: true, number: 'a923-3211-9c01-1112' }
{ valid: false, number: 'a923-3211-9c01-1112', error:
'wrong_length' }
```

Double Bonus: Make your credit card scheme even more advanced! What are the rules, and what are some numbers that pass or fail? Ideas: check expiration date! Check out the Luhn Algorithm for inspiration.