

Credit Card Validation JavaScript Function
 Source: <http://www.braemoor.co.uk/software/>
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 This routine checks the credit card number. The following checks are made:
 1. A number has been provided
 2. The number is a right length for the card
 3. The number has an appropriate prefix for the card
 4. The number has a valid modulus 10 number check digit if required
 If the validation fails an error is reported.
 The structure of credit card formats was gleaned from a variety of sources on the web, although the best is probably on Wikipedia ("Credit card number"): http://en.wikipedia.org/wiki/Credit_card_number
 Parameters:
 cardnumber number on the card
 cardname name of card as defined in the card list below
 Author: John Gardner
 Date: 1st November 2003
 Updated: 26th Feb. 2005 Additional cards added by request
 Updated: 27th Nov. 2006 Additional cards added from Wikipedia
 Updated: 18th Jan. 2008 Additional cards added from Wikipedia
 Updated: 26th Nov. 2008 Maestro cards extended
 Updated: 19th Jun. 2009 Laser cards extended from Wikipedia
 If a credit card number is invalid, an error reason is loaded into the global ccErrorNo variable. This can be used to index into the global error string array to report the reason to the user if required:
 e.g. if (!checkCreditCard (number, name) alert (ccErrors[ccErrorNo]);

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var ccErrorNo = 0;

var ccErrors = new Array ()
ccErrors [0] = "Unknown card type";
ccErrors [1] = "No card number provided";
ccErrors [2] = "Credit card number is in invalid format";
ccErrors [3] = "Credit card number is invalid";
ccErrors [4] = "Credit card number has an inappropriate number of digits";
  
```

