

# Package ‘checkLuhn’

July 22, 2025

**Type** Package

**Title** Checks if a Number is Valid Using the Luhn Algorithm

**Version** 1.1.0

**Description** Confirms if the number is Luhn compliant.

Can check if credit card, IMEI number or any other Luhn based number is correct.

For more info see: <[https://en.wikipedia.org/wiki/Luhn\\_algorithm](https://en.wikipedia.org/wiki/Luhn_algorithm)>.

**URL** <https://github.com/adamjdeacon/checkLuhn>

**BugReports** <https://github.com/adamjdeacon/checkLuhn/issues>

**Depends** R (>= 3.1.2)

**Imports** utils, dplyr, stringr

**License** GPL-2

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 6.1.0

**Suggests** testthat

**NeedsCompilation** no

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**Repository** CRAN

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`checkLuhn`-package*Functions and data for working with credit and debit cards*

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**Description**

Contains function for confirm if card numbers are valid and getting information about the card scheme and issuer see the repo at <https://github.com/adamjdeacon/checkLuhn>.

**Author(s)**

Adam Deacon (<[adam@deaconsworld.org.uk](mailto:adam@deaconsworld.org.uk)>)

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`bin_ranges`*BIN ranges*

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**Description**

A dataset containing the top level BIN ranges for card issuers

**Usage**

`bin_ranges`

**Format**

A data frame with 48 rows:

**issuer** The card issuer

**start** start of card range

**end** end of card range

**active** Is card still available

**length** Length of PAN

**Source**

<https://www.bincodes.com/bin-list>

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|           |                                        |
|-----------|----------------------------------------|
| checkLuhn | <i>Checks number is Luhn compliant</i> |
|-----------|----------------------------------------|

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**Description**

Checks number is Luhn compliant

**Usage**

```
checkLuhn(number)
```

**Arguments**

|        |                          |
|--------|--------------------------|
| number | The number to be checked |
|--------|--------------------------|

**Examples**

```
checkLuhn('4111 1111 1111 1111')
```

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|        |               |
|--------|---------------|
| issuer | <i>issuer</i> |
|--------|---------------|

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**Description**

Attempts to return the issuer and if the scheme is still active.

**Usage**

```
issuer(number)
```

**Arguments**

|        |                |
|--------|----------------|
| number | PAN to look up |
|--------|----------------|

**Value**

A dataframe of the issuer and if the scheme is active

**Examples**

```
issuer('4111 1111 1111 1111')
```

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