Package 'descriptiveStats'

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Title What the Package Does (One Line, Title Case)

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Description What the package does (one paragraph).

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`calc_iqr` *Calculate the interquartile range (IQR)*

Description

Computes Q3 - Q1 while removing missing values (`NA`). If all values are missing, the function returns `NA_real_` with a warning.

Usage

```
calc_iqr(x)
```

Arguments

x	A numeric vector.

Value

A single numeric value: the interquartile range of x or NA_real_ if all values are missing.

Examples

```
calc_iqr(c(1, 2, 3, 4))
calc_iqr(c(1, 2, NA, 10))
calc_iqr(c(NA, NA))
```

---

calc_mean *Calculate the mean of a numeric vector*

Description

Computes the arithmetic mean while removing missing values (NA). If all values are missing, the function returns NA_real_ with a warning.

Usage

```
calc_mean(x)
```

Arguments

x	A numeric vector.

Value

A single numeric value: the mean of x excluding NAs, or NA_real_ if all values are missing.

Examples

```
calc_mean(c(1, 2, 3, 4))
calc_mean(c(1, 2, NA, 4))
calc_mean(c(NA, NA))
```

calc_median *Calculate the median of a numeric vector*

Description

Computes the median while removing missing values (NA). If all values are missing, the function returns NA_real_ with a warning.

Usage

```
calc_median(x)
```

Arguments

x	A numeric vector.

Value

A single numeric value: the median of x excluding NAs, or NA_real_ if all values are missing.

Examples

```
calc_median(c(1, 2, 3, 4))
calc_median(c(1, 2, NA, 100))
calc_median(c(NA, NA))
```

calc_mode *Calculate the mode of a numeric vector*

Description

Returns the most frequent value after removing missing values (NA). If all values are missing, the function returns NA_real_ with a warning. If there is a tie for most frequent value, the smallest value is returned.

Usage

```
calc_mode(x)
```

Arguments

x	A numeric vector.

Value

A single numeric value: the mode of x excluding NAs, or NA_real_ if all values are missing.

Examples

```
calc_mode(c(1, 2, 2, 3))
calc_mode(c(1, 1, 2, 2))
calc_mode(c(NA, NA))
```

---

calc_q1 *Calculate the first quartile (Q1)*

Description

Computes the 25th percentile while removing missing values (NA). If all values are missing, the function returns NA_real_ with a warning.

Usage

```
calc_q1(x)
```

Arguments

x	A numeric vector.

Value

A single numeric value: the first quartile of x excluding NAs, or NA_real_ if all values are missing.

Examples

```
calc_q1(c(1, 2, 3, 4))
calc_q1(c(1, 2, NA, 10))
calc_q1(c(NA, NA))
```

---

calc_q3 *Calculate the third quartile (Q3)*

Description

Computes the 75th percentile while removing missing values (NA). If all values are missing, the function returns NA_real_ with a warning.

Usage

```
calc_q3(x)
```

Arguments

x	A numeric vector.

Value

A single numeric value: the third quartile of `x` excluding `NA`s, or `NA_real_` if all values are missing.

Examples

```
calc_q3(c(1, 2, 3, 4))
calc_q3(c(1, 2, NA, 10))
calc_q3(c(NA, NA))
```

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