

Package: PRMethods (via r-universe)

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Type Package

Title D-Hondt, Sainte-Lague, and Modified Sainte-Lague Methods for Seat Allocation

Version 0.1.0

Maintainer Pau Bello Pérez <paubelloper@r-universe.io>

Description Calculates seat allocation using the D-Hondt method, Sainte-Lague method, and Modified Sainte-Lague method, all commonly used in proportional representation electoral systems. For more information on these methods, see Michael Gallagher (1991) <[doi:10.1016/0261-3794\(91\)90004-C](https://doi.org/10.1016/0261-3794(91)90004-C)>.

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Author Pau Bello Pérez [aut, cre]

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dhondt *DHondt method for seats allocation.*

Description

DHondt method for seats allocation.

Usage

```
dhondt(votes, seats, threshold = 0, verbose = TRUE)
```

Arguments

votes	Un vector con los votos de cada partido.
seats	Total de seats a repartir.
threshold	Umbral electoral
verbose	Muestra los resultados en la consola

Value

Un vector con los seats asignados a cada partido.

Examples

```
votes <- c(A = 100000, B = 75000, C = 50000, D = 25000)
dhondt(votes, 10)
```

saintelague *Sainte-Lague method for seats allocation.*

Description

Sainte-Lague method for seats allocation.

Usage

```
saintelague(votes, seats, threshold = 0, verbose = TRUE)
```

Arguments

votes	Un vector con los votos de cada partido.
seats	Total de seats a repartir.
threshold	Umbral electoral
verbose	Muestra los resultados en la consola

Value

Un vector con los seats asignados a cada partido.

Examples

```
votes <- c(A = 100000, B = 75000, C = 50000, D = 25000)
saintelague(votes, 10)
```

saintelaguemod *Modified Sainte-Lague method for seats allocation.*

Description

Modified Sainte-Lague method for seats allocation.

Usage

```
saintelaguemod(votes, seats, threshold = 0, div = 1.4, verbose = TRUE)
```

Arguments

votes	Un vector con los votos de cada partido.
seats	Total de seats a repartir.
threshold	Umbral electoral
div	Divisor modificado en Modified Sainte-Lague
verbose	Muestra los resultados en la consola

Value

Un vector con los seats asignados a cada partido.

Examples

```
votes <- c(A = 100000, B = 75000, C = 50000, D = 25000)
saintelaguemod(votes, 10)
```

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