Package 'apportion'

February 16, 2023
Title Apportion Seats
Version 0.0.1
Description Convert populations into integer number of seats for legislative bodies. Implements apportionment methods used historically and currently in the United States for reapportionment after the Census, as described in https://www.census.gov/history/www/reference/apportionment/methods_of_apportionment.html .
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app_adams

Apportion by the Adams Method

Description

Apportion by the Adams Method

Usage

```
app_adams(size, pop)
```

Arguments

number of seats to apportion across units
pop a vector of population sizes for each unit

Value

integer vector

Examples

```
app_adams(size = 435, pop = state_2020$pop)
```

app_balinski_young

Apportion by the Balinski Young Method

Description

Apportion by the Balinski Young Method

Usage

```
app_balinski_young(size, pop)
```

Arguments

app_dean 3

Value

integer vector

Examples

```
app_balinski_young(size = 435, pop = state_2020$pop)
```

app_dean

Apportion by the Dean Method

Description

Apportion by the Dean Method

Usage

```
app_dean(size, pop)
```

Arguments

number of seats to apportion across units
pop a vector of population sizes for each unit

Value

integer vector

Examples

```
app_dean(size = 435, pop = state_2020$pop)
```

 ${\sf app_dhondt}$

Apportion by the D'Hondt Method

Description

Apportion by the D'Hondt Method

Usage

```
app_dhondt(size, pop)
```

Arguments

4 app_huntington_hill

Value

integer vector

Examples

```
app_dhondt(size = 435, pop = state_2020$pop)
```

app_hamilton_vinton

Apportion by the Hamilton-Vinton Method

Description

Apportion by the Hamilton-Vinton Method

Usage

```
app_hamilton_vinton(size, pop)
```

Arguments

number of seats to apportion across units
pop a vector of population sizes for each unit

Value

integer vector

Examples

```
app_hamilton_vinton(size = 435, pop = state_2020$pop)
```

 ${\tt app_huntington_hill}$

Apportion by the Huntington-Hill Method

Description

Apportion by the Huntington-Hill Method

Usage

```
app_huntington_hill(size, pop)
```

Arguments

app_jefferson 5

Value

integer vector

Examples

```
app_huntington_hill(size = 435, pop = state_2020$pop)
```

app_jefferson

Apportion by the Jefferson Method

Description

Apportion by the Jefferson Method

Usage

```
app_jefferson(size, pop)
```

Arguments

number of seats to apportion across units
pop a vector of population sizes for each unit

Value

integer vector

Examples

```
app_jefferson(size = 435, pop = state_2020$pop)
```

app_webster

Apportion by the Webster Method

Description

Apportion by the Webster Method

Usage

```
app_webster(size, pop)
```

Arguments

6 state_2020

Value

integer vector

Examples

```
app_webster(size = 435, pop = state_2020$pop)
```

state_2020

state_2020 (2020 State Data)

Description

tibble with columns:

• GEOID: Federal Information Processing Standards codes

• name: title case state name

• pop: 2020 population

• abb: two letter postal abbreviations

Usage

```
data('state_2020')
```

Value

tibble with state identifying information

Examples

```
data('state_2020')
```

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