

# Package ‘RPscoring’

July 21, 2025

**Type** Package

**Title** Relative Placement Algorithm

**Version** 0.1.0

**Depends** R (>= 3.5.0)

**Description** Implementation of the relative placement algorithm widely used in the scoring of Lindy Hop and West Coast Swing dance contests.

**License** GPL (>= 2)

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 7.0.0

**NeedsCompilation** no

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**Repository** CRAN

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## Contents

dashmatrix . . . . .	2
rankContestants . . . . .	2
resolveTies . . . . .	3
testdata . . . . .	3

<b>Index</b>	<b>4</b>
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`dashmatrix`*Dash Matrix*

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**Description**

Function to obtain the matrix of number of 1-1s, 1-2s, and so on.

**Usage**

```
dashmatrix(data)
```

**Arguments**

`data` dataset with competitors as rows and judges as columns

**Value**

A matrix:

`dashmatrix` matrix of number of placements

**Examples**

```
dashmatrix(testdata)
```

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`rankContestants`*Ranking of Contestants*

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**Description**

Function to rank contestants

**Usage**

```
rankContestants(data)
```

**Arguments**

`data` dataset with competitors as rows and judges as columns

**Value**

A vector:

`finalranking` final rankings of the competitors

**Examples**

```
rankContestants(testdata)
```

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resolveTies	<i>Resolve Ties</i>
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**Description**

Function to resolve ties between competitors.

**Usage**

```
resolveTies(data, contestants, column)
```

**Arguments**

data	dataset with competitors as rows and judges as columns
contestants	vector with which contestant numbers to resolve ties for
column	column of the dash matrix to begin with

**Value**

A list:

winnerfound	method by which winner was found
winner	vector with whom the winners were

**Examples**

```
resolveTies(testdata, c(1,2), 1)
```

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testdata	<i>Test Dataset</i>
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**Description**

This synthetic dataset represents the placements of  $n$  contestants (rows) by  $J$  judges (columns).

**Usage**

```
testdata
```

**Format**

A data frame with 8 contestants (rows) and 5 judges (variables):

- J1** rankings for Judge 1
- J2** rankings for Judge 1
- J3** rankings for Judge 1
- J4** rankings for Judge 1
- J5** rankings for Judge 1

# Index

## \* **datasets**

testdata, [3](#)

dashmatrix, [2](#)

rankContestants, [2](#)

resolveTies, [3](#)

testdata, [3](#)