

# Package ‘RPscoring’

October 12, 2022

**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

**Author** Daphna Harel [cre, aut],  
Yoav Bergner [aut]

**Maintainer** Daphna Harel <daphna.harel@gmail.com>

**Repository** CRAN

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dashmatrix	<i>Dash Matrix</i>
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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
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**Value**

A matrix:

dashmatrix	matrix of number of placements
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**Examples**

```
dashmatrix(testdata)
```

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rankContestants	<i>Ranking of Contestants</i>
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**Description**

Function to rank contestants

**Usage**

```
rankContestants(data)
```

**Arguments**

data	dataset with competitors as rows and judges as columns
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**Value**

A vector:

finalranking	final rankings of the competitors
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**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

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