

# Package ‘gds’

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**Type** Package

**Title** Descriptive Statistics of Grouped Data

**Version** 0.1.0

**Author** Partha Sarathi Bishnu <psbishnu@gmail.com>

**Maintainer** Partha Sarathi Bishnu <psbishnu@gmail.com>

**Description** Contains a function called `gds()` which accepts three input parameters like lower limits, upper limits and the frequencies of the corresponding classes. The `gds()` function calculate and return the values of mean ('gmean'), median ('gmedian'), mode ('gmode'), variance ('gvar'), standard deviation ('gstdev'), coefficient of variance ('gcv'), quartiles ('gq1', 'gq2', 'gq3'), inter-quartile range ('gIQR'), skewness ('g1'), and kurtosis ('g2') which facilitate effective data analysis. For skewness and kurtosis calculations we use moments.

**License** GPL (>= 2)

**LazyData** TRUE

**RoxygenNote** 5.0.1

**NeedsCompilation** no

**Repository** CRAN

**Date/Publication** 2016-04-09 00:21:07

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gds	<i>Descriptive statistics of grouped data: with the help of this package we calculate mean, median, mode, variance, standard deviation, coefficient of variance, quartiles, IQR, skewness, and kurtosis of grouped data.</i>
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**Description**

Descriptive statistics of grouped data: with the help of this package we calculate mean, median, mode, variance, standard deviation, coefficient of variance, quartiles, IQR, skewness, and kurtosis of grouped data.

**Usage**

```
gds(l1, u1, freq)
```

**Arguments**

l1	A data vector to store lower limit of the classes
u1	A data vector to store upper limit of the classes
freq	A data vector to store the frequencies of the corresponding classes

**Value**

gmean, gmedian, gmode, gvar, gstdev, gcv, gq1, gq2, gq3, gIQR, g1, g2

**References**

1. Gupta, S.P., and Gupta, M.P. (2005) Business statistics, Sultan Chand and Sons educational publishers, New Delhi.
2. Levine, D.M., Krehbiel, T.C., Bereson, M.L. and Viswanathan, P.K. (2011) Business statistics: a first course, 5th edition, Pearson.
3. Langford, E. (2006) Quartiles in Elementary Statistics, Journal of Statistics Education Volume 14, Number 3.
4. Das, N. G. (2010) Statistical Methods- Combined Edition (Volumes I & II), Tata McGraw Hill Education Private Limited, New Delhi.

**Examples**

```
gds(c(10, 20, 30, 40, 50), c(20, 30, 40, 50, 60), c(7, 13, 23, 20, 8))
```

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