

# Package ‘fpest’

October 13, 2022

**Type** Package

**Title** Estimating Finite Population Total

**Version** 0.1.1

**Author** S.Sampath

**Maintainer** S.Sampath <sampath1959@gmail.com>

**Description** Given the values of sampled units and selection probabilities the `desraj` function in the package computes the estimated value of the total as well as estimated variance.

**License** GPL-3

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 6.0.1

**NeedsCompilation** no

**Repository** CRAN

**Date/Publication** 2017-04-13 21:00:27 UTC

## R topics documented:

`desraj` . . . . . 1

**Index** 3

---

`desraj` *Desraj Ordered Estimator*

---

## Description

`Desraj` estimator computes the estimated value of a finite population total when values of the study variable for the sampled units and the corresponding selection probabilities are given as per the order of selection. It is meant for use in Probability Proportional to Size Without Replacement Sampling Scheme.

**Usage**

```
desraj(y, p)
```

**Arguments**

y	vector of values of sampled units as per the order of selection
p	vector of selection probabilities as per the order of selection

**References**

SamPATH, S. (2005) Sampling Theory and Methods, Alpha Science International, Ltd

**Examples**

```
y<-c(16,13,12,10)
p<-c(0.21, 0.34, 0.12,0.10)
desraj(y,p)
```

# Index

desraj, [1](#)