dcDuplicated

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Function to determine the duplicated patterns from inut data matrix

Description

dcDuplicated is supposed to determine the duplicated vectorised patterns from a matrix or data frame. The patterns can come from column-wise vectors or row-wise vectors. It returns an integer vector, in which the value indicates from which it duplicats.

Usage

```
dcDuplicated(data, pattern.wise = c("column", "row"), verbose = T)
```

Arguments

data an an input data matrix/frame

pattern.wise a character specifying in which wise to define patterns from input data. It can

be 'column' for column-wise vectors, and 'row' for row-wise vectors

verbose logical to indicate whether the messages will be displayed in the screen. By

default, it sets to TRUE for display

Value

an interger vector, in which an entry indicates from which it duplicats. When viewing column-wise patterns (or row-wise patterns), the returned integer vector has the same length as the column number (or the row number) of input data.

Note

none

See Also

dcAncestralMP, dcAncestralMP

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Examples

```
# an input data matrix storing discrete states for tips (in rows) X four characters (in columns)
data1 <- matrix(c(0,rep(1,3),rep(0,2)), ncol=1)
data2 <- matrix(c(rep(0,4),rep(1,2)), ncol=1)
data3 <- matrix(c(1,rep(0,3),rep(1,2)), ncol=1)
data <- cbind(data1, data2, data1, data3)
colnames(data) <- c("C1", "C2", "C3", "C4")
data

# determine the duplicated patterns from inut data matrix
res <- dcDuplicated(data, pattern.wise="column")
## return an integer vector
res
## get index for unique patterns
ind <- sort(unique(res))
## As seen above, the returned integer vector tells there are 3 unique patterns:
## they are in columns (1, 2, 4). The column 3 is duplicated from column 1.</pre>
```