Association Rules: nagdmc_assoc_print

Purpose

nagdmc_assoc_print prints association rules following a successful call to **nagdmc_assoc**. Rules are sorted in ascending order of number of items.

Declaration

Parameters

1: $\mathbf{nr} - \mathbf{long}$

On entry: the number of rules to print, as returned by nagdmc_assoc.

Constraint: $\mathbf{nr} > 0$.

2: maxnir - long Input

On entry: the maximum number of items in a rule, as used in the call to nagdmc_assoc.

Constraint: maxnir > 1.

3: rule[(1+maxnir)*maxnr] - long

On entry: the array containing generated rules, where $\mathbf{nr} \leq \mathbf{maxnr}$, as returned by $\mathbf{nagdmc_assoc}$.

4: stat[2*maxnr] - double

Input

Input

On entry: the array containing the support and confidence for each generated rule, where $\mathbf{nr} \leq \mathbf{maxnr}$, as returned by $\mathbf{nagdmc_assoc}$.

 $5: \quad \mathbf{info-int} *$

On exit: info gives information on the success of the function call:

0: the function successfully completed its task.

i; i = 1, 2: the specification of the ith formal parameter was incorrect.

99: the function failed to allocate enough memory.

100: an internal error occurred during the execution of the function.

Notation

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nr the number of rules, l.

rule contains the antecendent, A_i, and consequent, C_i, for the ith rule, for i=1,2,\ldots,l.

stat contains the support, x, and confidence, y, for the ith rule, for i=1,2,\ldots,l.
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Description

nagdmc_assoc_print prints to the terminal screen used to execute a calling program the following
information:

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Rule i: A_i \to C_i (x, y), \quad i = 1, 2, \dots, l,
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where the antecendent and consequent of the *i*th rule are given by the members of sets A_i and C_i , respectively; and x and y are the support and confidence of the *i*th rule, respectively.

Rules are sorted in ascending order of the number of items in the antecedent.

References and Further Reading

None.

See Also

nagdmc_assoc assoc_ex.c

computes association rules from item data. nagdmc_assoc_data reads in items from a numeric ASCII file.

the example calling program.