Association Rules: nagdmc_assoc_data

Purpose

nagdmc_assoc_data reads data from an ASCII file for use with nagdmc_assoc.

Declaration

Parameters

| 1: | dblk - long Inpa | ιt |
|----|--|----|
| | On entry: the number of data records (transactions) in the data block. | |
| | Constraint: $\mathbf{dblk} > 1$. | |
| 2: | nit[dblk] - long Output | ιt |
| | On exit: $nit[i]$ contains the number of items in the <i>i</i> th transaction, for $i = 0, 1,, dblk - 1$. | |
| 3: | data[n] - double Output | ιt |
| | On exit: an array containing the transactions; the value of n must be at least as high as the totanumber of items in the data. | əl |
| 4: | fname - char Inpr | ιt |
| | On entry: the location of an ASCII file containing the data. | |
| 5: | info - int * Output | ιt |
| | On exit: info gives information on the success of the function call: | |
| | 0: the function successfully completed its task. | |
| | i; i = 1: the specification of the <i>i</i> th formal parameter was incorrect. | |

51: the data file **fname** was not found.

Notation

nit the number of items in each data record, m_i , for i = 1, 2, ..., n. **data** the set of $\sum_{i=1}^n m_i$ data values, X.

Description

Let X be a set of n data records x_i , for i = 1, 2, ..., n. Each data record may contain a different number of integer data values or items. In general, let the *i*th data record contain a list of m_i items:

 $x_{ij} \in Z^+, \quad j = 1, 2, \dots, m_i,$

where $x_{i1} > 0$, and the values are sorted in ascending order:

 $x_{ij} \le x_{i(j+1)}, \quad j = 1, 2, \dots, m_i - 1.$

For such a data set in an ASCII file, **nagdmc_assoc_data** computes the number of items in each data record m_i , for i = 1, 2, ..., n and reads the data values into a one-dimensional array.

References and Further Reading

None.

See Also

| nagdmc_assoc | computes association rules given nit and data . |
|--------------------|---|
| nagdmc_assoc_print | prints the rules generated by an association rule analysis. |
| assoc_ex.c | the example calling program. |