
CTQDP FORMAT

Each file consists of basically two parts: a specification part and a data part. The specification part contains information on the file format and on its contents. The data part contains explicit data.

The specification part

All entries in this section consist of lines of the form

<keyword> : <value>

where <keyword> denotes an alphanumeric keyword and <value> denotes alphanumeric or numerical data. The terms <string>, <integer> and <real> denote character string, integer or real data, respectively. Integer and real numbers are given in free format.

Below we give a list of all keywords:

NAME : <string>

Identifies the data file.

TYPE : <string>

Specifies the nature of the data.

CLASS : <integer>

Specifies the Class of the instance, 1 or 2.

DIMENSION : <integer>

Identifies the number of suppliers n.

MAX_N_RANGE : <integer>

Is the maximum number of discount interval that a supplier can define.

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The data part
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DEMAND_SECTION

contains a first line

<integer>

that represents the number of products m. Then there are m lines

<integer> <integer>

where the first integer specifies the product's id and the second its demand.

OFFER_SECTION:

The offer of each supplier is specified in the form (per line)

<integer> <integer> [<integer> <integer> <integer>] ...

where the first integer gives the supplier's id, the following integer the number

of different products offered by that supplier and as many triplets as the second integer.

Each integer of the triplet gives the product's id, product's cost and product's availability respectively.

DISCOUNT_SECTION:

The discount policy of each supplier is specified in the form (per line)

<integer> <integer> [<integer> <integer>] ...

where the first integer gives the supplier's id, the following integer the number

of interval defined minus one, and as many pairs as the second integer.

Each integer of the pair

gives the lower bound and the discount percentage of the interval, respectively.

Notice that first interval of each supplier has lower bound equal to 0, and 0% of discount percentage.

EXAMPLE

NAME : Cap.3.2.2.1.10.1.ctqd

TYPE : CTQD

CLASS : 1

DIMENSION : 3

MAX_N_RANGE : 2

DEMAND_SECTION :

2

1 2

2 3

OFFER_SECTION :

1 2 2 10 2 1 10 2

2 2 2 10 2 1 10 1

3 1 2 10 3

DISCOUNT_SECTION :

1 1 4 10

2 1 3 10

3 0

EOF