THE PROGRAM GENERAT

This program transforms the generating function

$$\prod_{i=1}^{n}(a_{i0} + a_{i1}x + \ldots + a_{im_i}x^{m_i})^{c_i}$$

to

$$b_0 + b_1x + \ldots + b_kx^k$$

INPUT

The program asks for the name of an input file.
Then it asks for the name of an output file.

The input file has to contain:
1. A heading, max. 80 characters.
2. The number of polynomials (n).
3. n times (i.e. i is to go from 1 to n):
   $m_i\ a_{i0}\ a_{i1} \cdots a_{im_i}\ c_i$

Here m_i is an integer, a_{i0} to a_{im_i} and c_i are real (extended).

1. to 3. may be repeated several times. EOF stops the computation.
Note: The input file should ***not*** contain empty lines.

It was aimed at a simple and fast program, which nevertheless should be applicable to a wide range of practical cases in chemical enumerations, e.g. those of the examples in the present issue (pp. 131–142). Adapted for IBM–compatible PC. Available for USD 250.

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