Input Data of Ising Model

The InPut.java code has been developed by Jaime Díez González-Pardo, Pablo Lavín Pellón and Inés Sánchez de Movellán Sáiz.

At first, we have declare the attributes, that are the temperature, length of the lattice, the number of interactions parameters, the array with the interactions parameters, the number of Montecarlo sweeps, the number of skip and the thermalization. Moreover we have created an attribute which is an array of strings with the names of the variables. This will be used in parse method.

Secondly, we have made the constructor (empty) and three methods, that are described in the following paragraphs.

The first method is the parse, for which we have suppose that there is not mistakes in the input file and all variables are dimensionless. This method assigns the value of each variable to the appropiate object and, in the next version, it will analysed line by line if the data provided is correct.

The second method is the read. It Fill the attributes of the InputData object with those read from the file given as argument.

The last method is the write. It writes the values stored in the input data object into the file given as argument