SIMPLEX METHOD APPLICATIONS USING C LANGUAGE

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Abstract:
Simplex method is one of the techniques of linear programming that can be used as an alternative to determine the allocation of limited resources among several competing activities to achieve a desired goals and objectives optimally, such as the one of which is to maximize profits. Linear programming problems related to the problem of finding the optimum values (maximum / minimum) the best from an objective function with constraints that exist. Simplex method of calculation is based on the iteration process, starting with the initial solution is continuously improved in order to obtain optimal solutions. Solutions said to be optimal if no basic values than variables can not be enlarged again to raise the value of the objective function without violating existing constraints. In the simplex method, pour into a programming language, the authors chose the C language as the language used, because the C language has a high level of mathematical calculations and compiled to process faster than any other language with a writing style that is easily understood.

Bibliography: 4, (1984 - 2003)