

Problem Has No Primal Feasible Solution

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Problem Has No Primal Feasible

i m trying to solve a problem in GLPK, but it gives me this msg "problem has no primal feasible solution". Below you ll find the program. the constraint that gives me ...

algorithm - GLPK: no primal feasible solution - Stack Overflow

GLPK : OTSP Gives "has no primal feasible solution". The problem is simple. The program deals with supplying customers using delivery vehicles, the program determines the optimal routes (short distances) to satisfy the demand of the clients, so that each delivery vehicle supplies the demand of the customers without exceeding its capacity.

GLPK : OTSP Gives "has no primal feasible solution ...

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linear algebra - GLPK: OTSP Gives "has no primal feasible ...

[Help-glpk] Problem Has no Primal Feasible Solution I think that this problem has solution because i have solved it mentally with only 10 activities, but also with 10 activities GLPSOL says that the problem has no primal feasible solution.

Re: [Help-glpk] Problem Has no Primal Feasible Solution

has no primal feasible solution.Re: [Help-glpk] Problem Has no Primal Feasible Solution >i'm attaching the two file .mod and .dat to let you know > > When i run these files with glpsol, i get these two messages at the > end: > > Model has been successfully generated > and > PROBLEM

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If the Primal problem is feasible, but unbounded in the direction of optimisation, then the dual has no feasible solution. Otherwise, if the Primal problem has an optimal solution, then the dual has also an optimal solution. So the answer for your question is that feasibility of the Primal problem does not imply optimality for the Dual problem.

linear programming - Primal feasible solution implies Dual ...

- If one problem (either primal or dual) has an optimal feasible solution, other problem also has an optimal feasible solution. The optimal objective function value is same for both primal and dual.
- If one problem has no solution (infeasible), the other problem is either infeasible or unbounded.
- If one problem is unbounded the other problem is infeasible.

If one problem either primal or dual has an optimal ...

Relations between Primal and Dual If the primal problem is Maximize ctx subject to $Ax = b, x \geq 0$ then the dual is Minimize bty subject to $Aty \leq c$ (and y unrestricted) Easy fact: If x is feasible for the primal, and y is feasible for the dual, then $ctx \leq bty$ So (primal optimal) \Rightarrow (dual optimal) (Weak Duality Theorem) Much less easy fact: (Strong Duality Theorem)

Relations between Primal and Dual - University of Notre Dame

In the final tableau of a simplex method problem, if the problem has a solution, the last column will contain no negative numbers above the bottom row True If, at any stage of an iteration of the simplex method, it is not possible to compute the ratios (division by zero) or the ratios are negative,

then the standard linear programming problem has no solution.

Math 123 Final True/False Flashcards | Quizlet

However, some problems have distinct optimal solutions; for example, the problem of finding a feasible solution to a system of linear inequalities is a linear programming problem in which the objective function is the zero function (that is, the constant function taking the value zero everywhere).

Linear programming - Wikipedia

If you receive the message "PROBLEM HAS NO PRIMAL FEASIBLE SOLUTION", then hunt through the solution file for the variables that violate their bounds. This should allow you to identify which constraints are contradictory and the kinds of adjustment that might lead to a feasible system.

GLPK/GMPL (MathProg) - Wikibooks, open books for an open world

d) If the dual of a linear optimization problem has a degenerate basic feasible solution, then the primal problem must have multiple optimal solutions. e) The only way that the simplex method can get to a degenerate basic feasible solution at some iteration is when there is a tie in the min-ratio test in the previous iteration.

MIT, 2.098/6.255/15.093J Optimization Mid-Term Exam, Solutions

4 Duality Theory Recall from Section 1 that the dual to an LP in standard form (P) maximize $c^T x$ subject to $Ax \leq b$, $x \geq 0$ is the LP (D) minimize $b^T y$ subject to $A^T y \leq c$, $y \geq 0$. Since the problem D is a linear program, it too has a dual.

4 Duality Theory - University of Washington

Note that the signs of these objective coefficients must be positive when minimizing and negative when maximizing. Don't make these costs too big also because that introduces instabilities. If none of these added variables have a non-zero value then the model was initially feasible. When at least one is non-zero then the original model is ...

Infeasible models - SourceForge

if the primal problem is feasible and x is any primal feasible point, then $A^T(x+ty) \leq b$ for all $t \geq 0$ therefore $x+ty$ is primal feasible for all $t \geq 0$; moreover, as $t \rightarrow \infty$, $c^T(x+ty) = c^T x + tc^T y \rightarrow -\infty$ so the primal problem is unbounded below Duality 6-9

Lecture6 Duality - Engineering

P nD unbounded has solution not feasible unbounded no no possible has solution no same values no not feasible possible no possible Each of the three rows represents one of three (exclusive and exhaustive) properties of the Primal. That is, (P) is either unbounded, has a solution, or is infeasible. The columns represent the same features of the ...

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