

Solving LP problems with LINDO & LINGO

Both LINDO (LP solver) and LINGO (modelling language) are installed on the computers in the ALF classroom (3231SC).

1. Load LINDO, and read the file CHKNFD.ltx containing the LP model for the “Chicken Feed” problem.
2. Solve the problem and verify the solution in the lecture notes (“Chicken Feed”).
3. Modify the LP problem to consider the fourth ingredient as given on the final page of the lecture notes.
4. What is the optimal solution?

COST/KG	% INGREDIENT 1	% INGREDIENT 2	% INGREDIENT 3	% INGREDIENT 4

5. Save the modified file in a temporary location.
6. Load LINGO, and read the file CHKNFD.lg4 containing the LP model for the same problem.
7. Solve the problem to verify that you obtain the same solution as that obtained by LINDO.
8. Again modify the LP problem to consider the fourth ingredient.
9. Again solve the problem to verify that LINDO and LINGO give the same result.
10. Save the modified file in a temporary location.
11. E-mail the two modified files to hsohn@engineering.uiowa.edu and hand in this sheet (one per team). Then delete the two files.

Circle section: **1**(9:30Tues) **2**(10:30Tues) **3**(2:30Wed) **4**(11:30Thurs) **5**(12:30Thurs)

Team members:

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