Example, Section 3.8 (Blending)

(Exercise 7, p. 93)

Eli Daisy uses two chemicals (1 and 2) to produce two drugs (1 and 2). Drug 1 must be at least 70% chemical 1 and drug 2 must be at least 60% chemical 2. Up to 40 oz. of drug 1 can be sold at $6 per oz; up to 30 oz of drug 2 can be sold at $5 per oz. Up to 45 oz of chemical 1 can be purchased at $6 per oz, and up to 40 oz of chemical 2 can be purchased at $4 per oz. Formulate an LP that can be used to maximize Daisy's profits.