R Notebook

This is an [R Markdown](http://rmarkdown.rstudio.com) Notebook. When you execute code within the notebook, the results appear beneath the code.

Try executing this chunk by clicking the *Run* button within the chunk or by placing your cursor inside it and pressing *Cmd+Shift+Enter*.

library(lpSolve)  
library(lpSolveAPI)

getwd()

## [1] "/Users/taliadagan/Desktop/Quantative Analytics"

library(lpSolve)  
library(lpSolveAPI)  
#setwd("/Users/taliadagan/Desktop/Quantative Analytics")  
y <- read.lp("problem3.lp")  
y

## Model name:   
## a linear program with 9 decision variables and 9 constraints

solve(y)

## [1] 0

get.objective(y) # get objective value

## [1] 708000

get.variables(y) # get values of decision variables

## [1] 350.0000 400.0000 0.0000 0.0000 400.0000 500.0000 0.0000 133.3333  
## [9] 250.0000

get.constraints(y)

## [1] 750.0000 900.0000 383.3333 350.0000 933.3333 750.0000 13000.0000  
## [8] 12000.0000 5000.0000