

# QMM - Module 4

Brandon Palazzo

9/28/2020

Load lpSolveAPI Library

```
library(lpSolveAPI)
```

Read LP File

```
x <- read.lp("Weigelt.lp")  
x
```

```
## Model name:
```

```
## a linear program with 9 decision variables and 11 constraints
```

Solve for X

```
solve(x)
```

```
## [1] 0
```

Solve for the objectives, variables, and constraints

```
get.objective(x)
```

```
## [1] 696000
```

```
get.variables(x)
```

```
## [1] 516.6667 177.7778 0.0000 0.0000 666.6667 166.6667 0.0000 0.0000  
## [9] 416.6667
```

```
get.constraints(x)
```

```
## [1] 6.944444e+02 8.333333e+02 4.166667e+02 1.300000e+04 1.200000e+04  
## [6] 5.000000e+03 5.166667e+02 8.444444e+02 5.833333e+02 -2.037268e-10  
## [11] 0.000000e+00
```