# QMM bpalazzo_Final

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Packages

```
library(lpSolveAPI)
```

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

```
## Model name:
##   a linear program with 48 decision variables and 28 constraints
```

Solve for X

```
solve(x)
```

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

Solve for the objectives, variables, and constraints

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

```
## [1] 36.5
```

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

```
##  [1] 0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 0 0 0 1 0 1 0 0 0 0 1 0 0 0 0 0 1 0 0 1 0 0 0
## [39] 0 1 0 0 0 1 0 1 0 0
```

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

```
##  [1]  1.0  1.0  1.0  1.0  1.0  1.0  1.0  1.0  1.0  1.0  1.0  1.0  3.0  3.0  3.0
## [16]  3.0  9.3  9.8  8.5  8.9  7.0  8.0  8.0  7.0 10.0  8.0 12.0 13.0
```