

# Assignment3Q1

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```
library(lpSolveAPI)
Transportation.lp <- read.lp("TransportationProb.lp")
Transportation.lp
```

```
## Model name:
##           XA1  XA2  XA3  XB1  XB2  XB3
## Minimize  622  614  630  641  645  649
## PlantA    1    1    1    0    0    0  <=  100
## PlantB    0    0    0    1    1    1  <=  120
## Warehouse1 1    0    0    1    0    0  =    80
## Warehouse2 0    1    0    0    1    0  =    60
## Warehouse3 0    0    1    0    0    1  =    70
## Kind       Std  Std  Std  Std  Std  Std
## Type       Real Real Real Real Real Real
## Upper      Inf  Inf  Inf  Inf  Inf  Inf
## Lower      0    0    0    0    0    0
```

```
solve(Transportation.lp)
```

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

```
get.objective(Transportation.lp)
```

```
## [1] 132790
```

```
decisionvars <- get.variables(Transportation.lp)
Const <- get.constraints(Transportation.lp)
```