Goal

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```
library(lpSolveAPI)
```

```
goal <- read.lp("C:/Users/12349/Documents/goal.lp")


solve(goal)
```

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

```
# Print the model

goal
```

```
## Model name:
##             x1    x2    x3   y1p   y1m   y2m   y2p
## Maximize    20    15    25    -6    -6    -3     0
## R1           6     4     5    -1     1     0     0  =  50
## R2           8     7     5     0     0     1    -1  =  75
## Kind       Std   Std   Std   Std   Std   Std   Std
## Type      Real  Real  Real  Real  Real  Real  Real
## Upper      Inf   Inf   Inf   Inf   Inf   Inf   Inf
## Lower        0     0     0     0     0     0     0
```

```
# To identify the Optimal Solution
get.objective(goal)
```

```
## [1] 225
```

```
library(lpSolveAPI)

preemptive_goal<- read.lp("C:/Users/12349/Documents/preemptives.lp")

solve(preemptive_goal)
```

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

```
# Print the model

preemptive_goal
```

```
## Model name:
##             x1    x2    x3   y1p   y1n   y2n   y2p
## Maximize    20    15    25    -6    -6    -3     0
## R1           6     4     5    -1     1     0     0  =  50
## R2           8     7     5     0     0     1    -1  =  75
## Kind       Std   Std   Std   Std   Std   Std   Std
## Type      Real  Real  Real  Real  Real  Real  Real
## Upper      Inf   Inf   Inf   Inf   Inf   Inf   Inf
## Lower        0     0     0     0     0     0     0
```

```
# To identify the optimal solution
get.objective(preemptive_goal)
```

```
## [1] 225
```