

QMM_Final

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Final Exam - Student Allocation

In this assignment, we are tasked with assigning 12 students to four groups, 3 students to a group, and based off of three factors that we decide.

```
library(lpSolveAPI)
Ip_staff <- read.lp("aaksatan_F.lp")
Ip_staff
```

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

```
solve(Ip_staff)
```

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

```
get.objective(Ip_staff)
```

```
## [1] 38.3
```

```
get.variables(Ip_staff)
```

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

```
get.constraints(Ip_staff)
```

```
## [1] 9.1 8.4 10.2 10.6 246.9 248.8 168.5 202.2 239.7 266.6 272.8 213.9
## [13] 3.0 3.0 3.0 3.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
## [25] 1.0 1.0 1.0 1.0
```