

Assignment problems R codes

```
#Assignment problems
```

```
# Import lpSolve package
```

#problem1

```
library(lpSolve)
```

```
# Set assignment cost matrix
```

```
cost <- matrix(c(13,8,16,18,19,9,15,24,9,12,12,9,4,  
                4,4,6,12,10,8,13,15,17,18,12,20), nrow = 5, byrow = TRUE)
```

```
# Print assignment costs matrix
```

```
cost
```

```
# Final value (z)
```

```
lp.assign(cost)
```

```
# Variables final values
```

```
lp.assign(cost)$solution
```

#problem2

```
cost <- matrix(c(9,11,14,11,7,6,15,13,13,10,  
                12,13,6,8,8,11,9,10,12,9,  
                7,12,14,10,14), nrow = 5, byrow = TRUE)
```

```
cost
```

```
lp.assign(cost)
```

```
lp.assign(cost)$solution
```

#problem3

```
cost <- matrix(c(16,2,3,7,5,13,7,5,8,6,5,9,  
                3,4,5,11), nrow = 4, byrow = TRUE)
```

```
cost
```

```
lp.assign(cost)
```

```
lp.assign(cost)$solution
```

```
#problem4
```

```
cost <- matrix(c(5,3,2,8,7,9,2,6,6,4,5,7,  
                5,7,7,8), nrow = 4, byrow = TRUE)
```

```
cost
```

```
lp.assign(cost)
```

```
lp.assign(cost)$solution
```