# practice

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### IE 421 hw 1

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# r markdown practice

```
load("C:/Users/Selimhan/Desktop/shippingData.RData")

library(knitr)
library(rmarkdown)
library(dplyr)

## ## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
## ## filter, lag

## The following objects are masked from 'package:base':
## ## intersect, setdiff, setequal, union
```

```
Question 1
```

```
##
## Back order Late On time
## Central 6 6 93
## Eastern 8 9 92
## Western 3 0 102
```

### a pipe

```
## # A tibble: 3 x 6
     `shippingData$Center` count mean_days std_days mean_distance std_distance
##
     <fct>
                                      <dbl>
                                                <dbl>
                                                               <dbl>
                            <int>
                                                                            <dbl>
## 1 Central
                                        3.98
                                                 1.28
                                                                253.
                                                                            100.
                              105
## 2 Eastern
                              109
                                        4.45
                                                 1.25
                                                                283.
                                                                            107.
## 3 Western
                              105
                                        2.98
                                                 1.09
                                                                251.
                                                                             89.0
```

## filtering late and on time deliveries

Latest delivery is:

```
late_deliveries <- filter(shippingData , Status == "Late")
min(late_deliveries$Days)</pre>
```

```
## [1] 6.07847
```

#### Fastest delivery is:

```
on_time_deliveries <- filter(shippingData , Status == "On time")
max(on_time_deliveries$Days)</pre>
```

```
## [1] 5.98264
```

#### additional late deliveries if promised time was 5 days

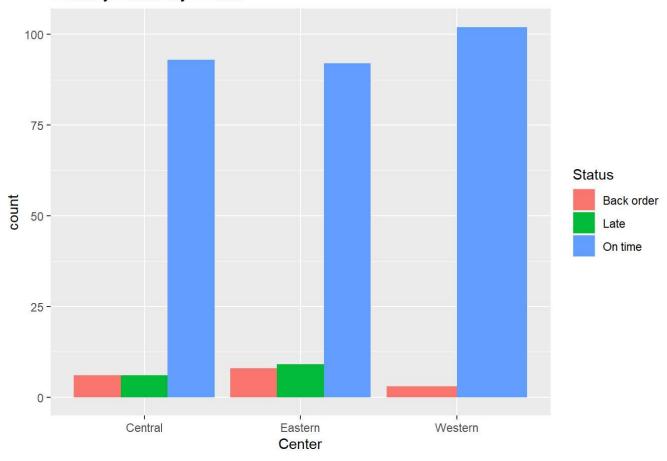
```
abs(count(filter(shippingData , Status == "Late")) - count(filter(shippingData , Days > 5)))
```

```
## n
## 1 46
```

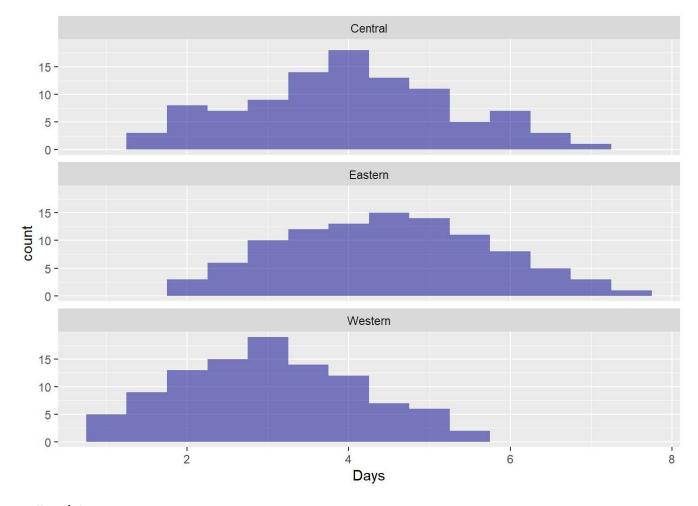
#### graphing delivery status

```
ggplot(shippingData) + geom_bar(mapping = aes(x = Center , fill = Status) , position = "dodg e") + <math>ggtitle("Delivery Status by Center")
```

### Delivery Status by Center



#### Histogram graph



scatter plot

## Warning: Removed 17 rows containing missing values (geom\_point).

