Homework 4

Carlos F Revilla

Problem 1

a

```
fatalA<-read.csv(file = 'fatal accidents.csv')
head(fatalA)
```

```
##                     State Case.number Vehicle.count People.count.IN
## 1 District of Columbia        110001             1               1
## 2 District of Columbia        110002             1               1
## 3 District of Columbia        110003             1               1
## 4 District of Columbia        110004             2               2
## 5 District of Columbia        110005             1               2
## 6 District of Columbia        110006             4               7
##   People.count.OUT Day Month Year Day.of.week Hour Minute
## 1                1  11     2 2019           2   23     34
## 2                1  20     2 2019           4   18     25
## 3                1   5     3 2019           3   21      1
## 4                0  13     5 2019           2    5     19
## 5                0   4     8 2019           1    4      7
## 6                0   5     4 2019           6    2     45
```

Your explanation and comments go here, when needed.
b

```
state.list<-split(fatalA,f=fatalA$State)
```

Your explanation and comments go here, when needed.
c

```
lapply(state.list,head,3)
```

```
## $`District of Columbia`
##                   State Case.number Vehicle.count People.count.IN
## 1 District of Columbia      110001             1               1
## 2 District of Columbia      110002             1               1
## 3 District of Columbia      110003             1               1
##   People.count.OUT Day Month Year Day.of.week Hour Minute
## 1                1  11     2 2019           2   23     34
## 2                1  20     2 2019           4   18     25
## 3                1   5     3 2019           3   21      1
##
## $Maryland
##         State Case.number Vehicle.count People.count.IN People.count.OUT Day
## 23 Maryland      240001             2               3                1   7
## 24 Maryland      240002             3               3                0   3
## 25 Maryland      240003             2               4                1   6
##    Month Year Day.of.week Hour Minute
## 23     1 2019           2    5     55
## 24     1 2019           5    6     43
## 25     1 2019           1   15     30
##
## $`North Carolina`
##               State Case.number Vehicle.count People.count.IN People.count.OUT
## 507 North Carolina      370001             1               1                0
## 508 North Carolina      370002             2               2                0
## 509 North Carolina      370003             2               2                0
##     Day Month Year Day.of.week Hour Minute
## 507   5     1 2019           7   23     47
## 508  17     1 2019           5    6     44
## 509  17     1 2019           5   14     54
##
## $Virginia
##          State Case.number Vehicle.count People.count.IN People.count.OUT Day
## 1791 Virginia      510001             1               1                1   1
## 1792 Virginia      510002             2               2                0   2
## 1793 Virginia      510003             1               2                0   3
##      Month Year Day.of.week Hour Minute
## 1791     1 2019           3    5     48
## 1792     1 2019           4   15     35
## 1793     1 2019           5   15      5
##
## $`West Virginia`
##               State Case.number Vehicle.count People.count.IN People.count.OUT
## 2565 West Virginia      540001             1               4                0
## 2566 West Virginia      540002             2               2                0
## 2567 West Virginia      540003             1               1                0
```

```
##      Day Month Year Day.of.week Hour Minute
## 2565   2     1 2019           4   20     30
## 2566   2     1 2019           4    6      8
## 2567   9     1 2019           4   23     36
```

Your explanation and comments go here, when needed.
d

```
##apply(state.list,FUN=hist(state.list$Day.of.week))
```

Your explanation and comments go here, when needed.
e

Your explanation and comments go here, when needed.

References

1. Your resources go here. Links should be surrounded by <>.