# data.table Homework

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```
library(tidyverse)
library(data.table)
```

```
flights1 <- fread("nycdata.csv")
flights2 <- read_csv("nycdata.csv")
```

### 1: Use and show data.table code to select the variables year, month, day, and hour from the imported flights data

```
flights1[, c("year", "month", "day", "hour")]
```

```
        year month day hour
     1: 2014     1   1    9
     2: 2014     1   1   11
     3: 2014     1   1   19
     4: 2014     1   1    7
     5: 2014     1   1   13
    ---
253312: 2014    10  31   14
253313: 2014    10  31    8
253314: 2014    10  31   11
253315: 2014    10  31   11
253316: 2014    10  31    8
```

**2: Use and show data.table code to produce a table that shows a carrier of DL, an origin of JFK and a destination of SEA**

```
flights1[carrier == "DL" & origin == "JFK" & dest == "SEA", c("carrier","origin","dest")]
```

```
      carrier origin dest
   1:      DL    JFK  SEA
   2:      DL    JFK  SEA
   3:      DL    JFK  SEA
   4:      DL    JFK  SEA
   5:      DL    JFK  SEA
  ---
1074:      DL    JFK  SEA
1075:      DL    JFK  SEA
1076:      DL    JFK  SEA
1077:      DL    JFK  SEA
1078:      DL    JFK  SEA
```

**3: Use and show data.table code to produce a table that shows a carrier of UA, a month of March, and an airtime that is below 330.**

```
# R code  here
```

**4: Use and show tidyverse code to produce a table that shows a carrier of UA, a month of March, and an airtime that is below 330.**

```
# R code  here
```

**5: Use the data.table method to add a variable called speed that is the average air speed of the plane in miles per hour.**

```
# R code  here
```

**6: Use the tidyverse method to add a variable called speed that is the average air speed of the plane in miles per hour.**

```
# R code  here
```

**7: Show and use coding to change the carrier abbreviation of UA to UniitedAir,**

**7a: data.table method**

```
# R code  here
```

**7b: tidyverse method (Use a sequence of dplyr commands so that you can see the change in your table)**

```
# R code  here
```