Chapter 3 - Data Transformation with dplyr

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Exercise 2

2. Sort flights to find the most delayed flights. Find the flights that left earliest.

```
library(dplyr)
library(nycflights13)
```

Upload database

```
data<-nycflights13::flights

View(data)
```

```
most_delayed<-data%>%
          arrange(desc(dep_delay))

most_delayed
```

```
## # A tibble: 336,776 x 19
##     year month   day dep_time sched_dep_time dep_delay arr_time sched_arr_time
##    <int> <int> <int>    <int>          <int>     <dbl>    <int>          <int>
## 1   2013     1     9      641            900      1301     1242           1530
## 2   2013     6    15     1432           1935      1137     1607           2120
## 3   2013     1    10     1121           1635      1126     1239           1810
## 4   2013     9    20     1139           1845      1014     1457           2210
## 5   2013     7    22      845           1600      1005     1044           1815
## 6   2013     4    10     1100           1900       960     1342           2211
## 7   2013     3    17     2321            810       911      135           1020
## 8   2013     6    27      959           1900       899     1236           2226
## 9   2013     7    22     2257            759       898      121           1026
## 10  2013    12     5      756           1700       896     1058           2020
## # ... with 336,766 more rows, and 11 more variables: arr_delay <dbl>,
## #   carrier <chr>, flight <int>, tailnum <chr>, origin <chr>, dest <chr>,
## #   air_time <dbl>, distance <dbl>, hour <dbl>, minute <dbl>, time_hour <dttm>
```

```
left_earliest<-data %>%
          arrange(dep_delay)

left_earliest
```

```
## # A tibble: 336,776 x 19
##     year month   day dep_time sched_dep_time dep_delay arr_time sched_arr_time
##    <int> <int> <int>    <int>          <int>     <dbl>    <int>          <int>
## 1   2013    12     7     2040           2123       -43       40           2352
## 2   2013     2     3     2022           2055       -33     2240           2338
## 3   2013    11    10     1408           1440       -32     1549           1559
## 4   2013     1    11     1900           1930       -30     2233           2243
## 5   2013     1    29     1703           1730       -27     1947           1957
## 6   2013     8     9      729            755       -26     1002            955
## 7   2013    10    23     1907           1932       -25     2143           2143
## 8   2013     3    30     2030           2055       -25     2213           2250
## 9   2013     3     2     1431           1455       -24     1601           1631
## 10  2013     5     5      934            958       -24     1225           1309
## # ... with 336,766 more rows, and 11 more variables: arr_delay <dbl>,
## #   carrier <chr>, flight <int>, tailnum <chr>, origin <chr>, dest <chr>,
## #   air_time <dbl>, distance <dbl>, hour <dbl>, minute <dbl>, time_hour <dttm>
```