STATS 506 Problem Set #4

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Tidyverse

```
library(tidyverse)
library(nycflights13)
```

a. First table

```
# A tibble: 3 x 3
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	name		${\tt mean_delay}$	${\tt median_delay}$
	<chr></chr>		<dbl></dbl>	<dbl></dbl>
1	Newark Liberty	Intl	9.11	-4
2	La Guardia		5.78	-5
3	John F Kennedy	Intl	5.55	-6

Second table

A tibble: 102 x 3

	010010: 102 H 0		
	name	mean_delay	median_delay
	<chr></chr>	<dbl></dbl>	<dbl></dbl>
1	"Columbia Metropolitan"	41.8	28
2	"Tulsa Intl"	33.7	14
3	"Will Rogers World"	30.6	16
4	"Jackson Hole Airport"	28.1	15
5	"Mc Ghee Tyson"	24.1	2
6	"Dane Co Rgnl Truax Fld"	20.2	1
7	"Richmond Intl"	20.1	1
8	"Akron Canton Regional Airport"	19.7	3
9	"Des Moines Intl"	19.0	0
10	"Gerald R Ford Intl"	18.2	1
11	"Birmingham Intl"	16.9	-2
12	"Theodore Francis Green State"	16.2	1
13	"Greenville-Spartanburg International"	15.9	-0.5
14	"Cincinnati Northern Kentucky Intl"	15.4	-3
15	"Savannah Hilton Head Intl"	15.1	-1
16	"Manchester Regional Airport"	14.8	-3
17	"Eppley Afld"	14.7	-2
18	"Yeager"	14.7	-1.5
19	"Kansas City Intl"	14.5	0
20	"Albany Intl"	14.4	-4
21	"General Mitchell Intl"	14.2	0
22	"Piedmont Triad"	14.1	-2
23	"Washington Dulles Intl"	13.9	-3
24	"Cherry Capital Airport"	13.0	-10
25	"James M Cox Dayton Intl"	12.7	-3
26	"Louisville International Airport"	12.7	-2

27	"Chicago Midway Intl"	12.4	-1
	"Sacramento Intl"	12.1	4
	"Jacksonville Intl"	11.8	-2
	"Nashville Intl"	11.8	-2
	"Portland Intl Jetport"	11.7	-4
	"Greater Rochester Intl"	11.6	-5
	"Hartsfield Jackson Atlanta Intl"	11.3	-1
	"Lambert St Louis Intl"	11.1	-3
35	"Norfolk Intl"	10.9	-4
	"Baltimore Washington Intl"	10.7	-5
	"Memphis Intl"	10.6	-2.5
	"Port Columbus Intl"	10.6	-3
	"Charleston Afb Intl"	10.6	-4
40	"Philadelphia Intl"	10.1	-3
	"Raleigh Durham Intl"	10.1	-3
	"Indianapolis Intl"	9.94	-3
	"Charlottesville-Albemarle"	9.5	-5
44	"Cleveland Hopkins Intl"	9.18	-5
	"Ronald Reagan Washington Natl"	9.07	-2
	"Burlington Intl"	8.95	-4
47	"Buffalo Niagara Intl"	8.95	-5
	"Syracuse Hancock Intl"	8.90	-5
49	"Denver Intl"	8.61	-2
50	"Palm Beach Intl"	8.56	-3
51	"BQN"	8.25	-1
52	"Bob Hope"	8.18	-3
53	"Fort Lauderdale Hollywood Intl"	8.08	-3
54	"Bangor Intl"	8.03	-9
55	"Asheville Regional Airport"	8.00	-1
56	"PSE"	7.87	0
57	"Pittsburgh Intl"	7.68	-5
58	"Gallatin Field"	7.6	-2
59	"NW Arkansas Regional"	7.47	-2
60	"Tampa Intl"	7.41	-4
61	"Charlotte Douglas Intl"	7.36	-3
62	"Minneapolis St Paul Intl"	7.27	-5
63	"William P Hobby"	7.18	-4
64	"Bradley Intl"	7.05	-10
65	"San Antonio Intl"	6.95	-9
66	"South Bend Rgnl"	6.5	-3.5
67	"Louis Armstrong New Orleans Intl"	6.49	-6
68	"Key West Intl"	6.35	7
69	"Eagle Co Rgnl"	6.30	-4

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70 "Austin Bergstrom Intl"
                                                 6.02
                                                                -5
                                                 5.88
71 "Chicago Ohare Intl"
                                                                -8
72 "Orlando Intl"
                                                5.45
                                                                -5
73 "Detroit Metro Wayne Co"
                                                5.43
                                                                -7
74 "Portland Intl"
                                                5.14
                                                                -5
75 "Nantucket Mem"
                                                4.85
                                                                -3
76 "Wilmington Intl"
                                                4.64
                                                                -7
77 "Myrtle Beach Intl"
                                                4.60
                                                               -13
78 "Albuquerque International Sunport"
                                                4.38
                                                                -5.5
79 "George Bush Intercontinental"
                                                4.24
                                                                -5
80 "Norman Y Mineta San Jose Intl"
                                                3.45
                                                                -7
81 "Southwest Florida Intl"
                                                3.24
                                                                -5
82 "San Diego Intl"
                                                 3.14
                                                                -5
83 "Sarasota Bradenton Intl"
                                                 3.08
                                                                -5
84 "Metropolitan Oakland Intl"
                                                 3.08
                                                                -9
85 "General Edward Lawrence Logan Intl"
                                                2.91
                                                                -9
86 "San Francisco Intl"
                                                2.67
                                                                -8
87 "SJU"
                                                2.52
                                                                -6
88 "Yampa Valley"
                                                2.14
                                                                 2
89 "Phoenix Sky Harbor Intl"
                                                2.10
                                                                -6
90 "Montrose Regional Airport"
                                                1.79
                                                               -10.5
91 "Los Angeles Intl"
                                                0.547
                                                                -7
92 "Dallas Fort Worth Intl"
                                                0.322
                                                                -9
                                                0.299
93 "Miami Intl"
                                                                -9
94 "Mc Carran Intl"
                                                0.258
                                                                -8
95 "Salt Lake City Intl"
                                                                -8
                                                0.176
96 "Long Beach"
                                               -0.0620
                                                               -10
97 "Martha\\\\'s Vineyard"
                                               -0.286
                                                               -11
98 "Seattle Tacoma Intl"
                                               -1.10
                                                               -11
99 "Honolulu Intl"
                                               -1.37
                                                                -7
100 "STT"
                                               -3.84
                                                                -9
101 "John Wayne Arpt Orange Co"
                                               -7.87
                                                               -11
102 "Palm Springs Intl"
                                              -12.7
                                                               -13.5
```

b. Here's the table

```
arrange(desc(avg_mph)) %>%
slice_head(n=1)
```