

Introduction to data

Some define statistics as the field that focuses on turning information into knowledge. The first step in that process is to summarize and describe the raw information – the data. In this lab we explore flights, specifically a random sample of domestic flights that departed from the three major New York City airports in 2013. We will generate simple graphical and numerical summaries of data on these flights and explore delay times. Since this is a large data set, along the way you'll also learn the indispensable skills of data processing and subsetting.

Getting started

Load packages

In this lab, we will explore and visualize the data using the **tidyverse** suite of packages. The data can be found in the companion package for OpenIntro labs, **openintro**.

Let's load the packages.

```
library(tidyverse)
library(openintro)
```

The data

The Bureau of Transportation Statistics (BTS) is a statistical agency that is a part of the Research and Innovative Technology Administration (RITA). As its name implies, BTS collects and makes transportation data available, such as the flights data we will be working with in this lab.

First, we'll view the **nycflights** data frame. Type the following in your console to load the data:

```
data(nycflights)
```

The data set **nycflights** that shows up in your workspace is a *data matrix*, with each row representing an *observation* and each column representing a *variable*. R calls this data format a **data frame**, which is a term that will be used throughout the labs. For this data set, each *observation* is a single flight.

To view the names of the variables, type the command

```
names(nycflights)
```

```
## [1] "year"      "month"     "day"       "dep_time"  "dep_delay" "arr_time"
## [7] "arr_delay" "carrier"   "tailnum"   "flight"    "origin"    "dest"
## [13] "air_time"  "distance"  "hour"      "minute"
```

This returns the names of the variables in this data frame. The **codebook** (description of the variables) can be accessed by pulling up the help file:

```
?nycflights
```

One of the variables refers to the carrier (i.e. airline) of the flight, which is coded according to the following system.

- **carrier**: Two letter carrier abbreviation.
 - 9E: Endeavor Air Inc.
 - AA: American Airlines Inc.

- AS: Alaska Airlines Inc.
- B6: JetBlue Airways
- DL: Delta Air Lines Inc.
- EV: ExpressJet Airlines Inc.
- F9: Frontier Airlines Inc.
- FL: AirTran Airways Corporation
- HA: Hawaiian Airlines Inc.
- MQ: Envoy Air
- OO: SkyWest Airlines Inc.
- UA: United Air Lines Inc.
- US: US Airways Inc.
- VX: Virgin America
- WN: Southwest Airlines Co.
- YV: Mesa Airlines Inc.

Remember that you can use `glimpse` to take a quick peek at your data to understand its contents better.

```
glimpse(nycflights)
```

```
## Rows: 32,735
## Columns: 16
## $ year      <int> 2013, 2013, 2013, 2013, 2013, 2013, 2013, 2013, 2013, 2013, ~
## $ month     <int> 6, 5, 12, 5, 7, 1, 12, 8, 9, 4, 6, 11, 4, 3, 10, 1, 2, 8, 10~
## $ day       <int> 30, 7, 8, 14, 21, 1, 9, 13, 26, 30, 17, 22, 26, 25, 21, 23, ~
## $ dep_time  <int> 940, 1657, 859, 1841, 1102, 1817, 1259, 1920, 725, 1323, 940~
## $ dep_delay <dbl> 15, -3, -1, -4, -3, -3, 14, 85, -10, 62, 5, 5, -2, 115, -4, ~
## $ arr_time  <int> 1216, 2104, 1238, 2122, 1230, 2008, 1617, 2032, 1027, 1549, ~
## $ arr_delay <dbl> -4, 10, 11, -34, -8, 3, 22, 71, -8, 60, -4, -2, 22, 91, -6, ~
## $ carrier   <chr> "VX", "DL", "DL", "DL", "9E", "AA", "WN", "B6", "AA", "EV", ~
## $ tailnum   <chr> "N626VA", "N3760C", "N712TW", "N914DL", "N823AY", "N3AXAA", ~
## $ flight    <int> 407, 329, 422, 2391, 3652, 353, 1428, 1407, 2279, 4162, 20, ~
## $ origin    <chr> "JFK", "JFK", "JFK", "JFK", "LGA", "LGA", "EWR", "JFK", "LGA~
## $ dest      <chr> "LAX", "SJU", "LAX", "TPA", "ORF", "ORD", "HOU", "IAD", "MIA~
## $ air_time  <dbl> 313, 216, 376, 135, 50, 138, 240, 48, 148, 110, 50, 161, 87, ~
## $ distance  <dbl> 2475, 1598, 2475, 1005, 296, 733, 1411, 228, 1096, 820, 264, ~
## $ hour      <dbl> 9, 16, 8, 18, 11, 18, 12, 19, 7, 13, 9, 13, 8, 20, 12, 20, 6~
## $ minute    <dbl> 40, 57, 59, 41, 2, 17, 59, 20, 25, 23, 40, 20, 9, 54, 17, 24~
```

The `nycflights` data frame is a massive trove of information. Let's think about some questions we might want to answer with these data:

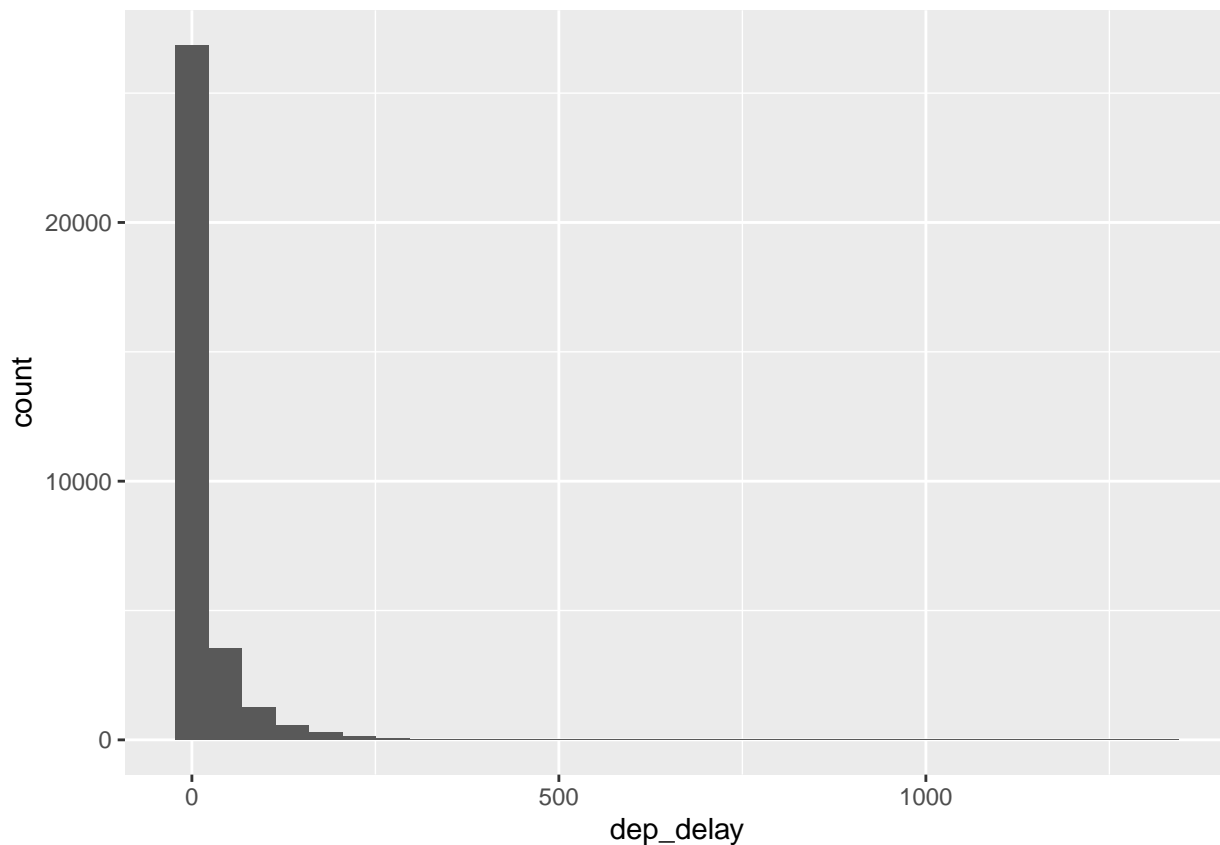
- How delayed were flights that were headed to Los Angeles?
- How do departure delays vary by month?
- Which of the three major NYC airports has the best on time percentage for departing flights?

Analysis

Departure delays

Let's start by examining the distribution of departure delays of all flights with a histogram.

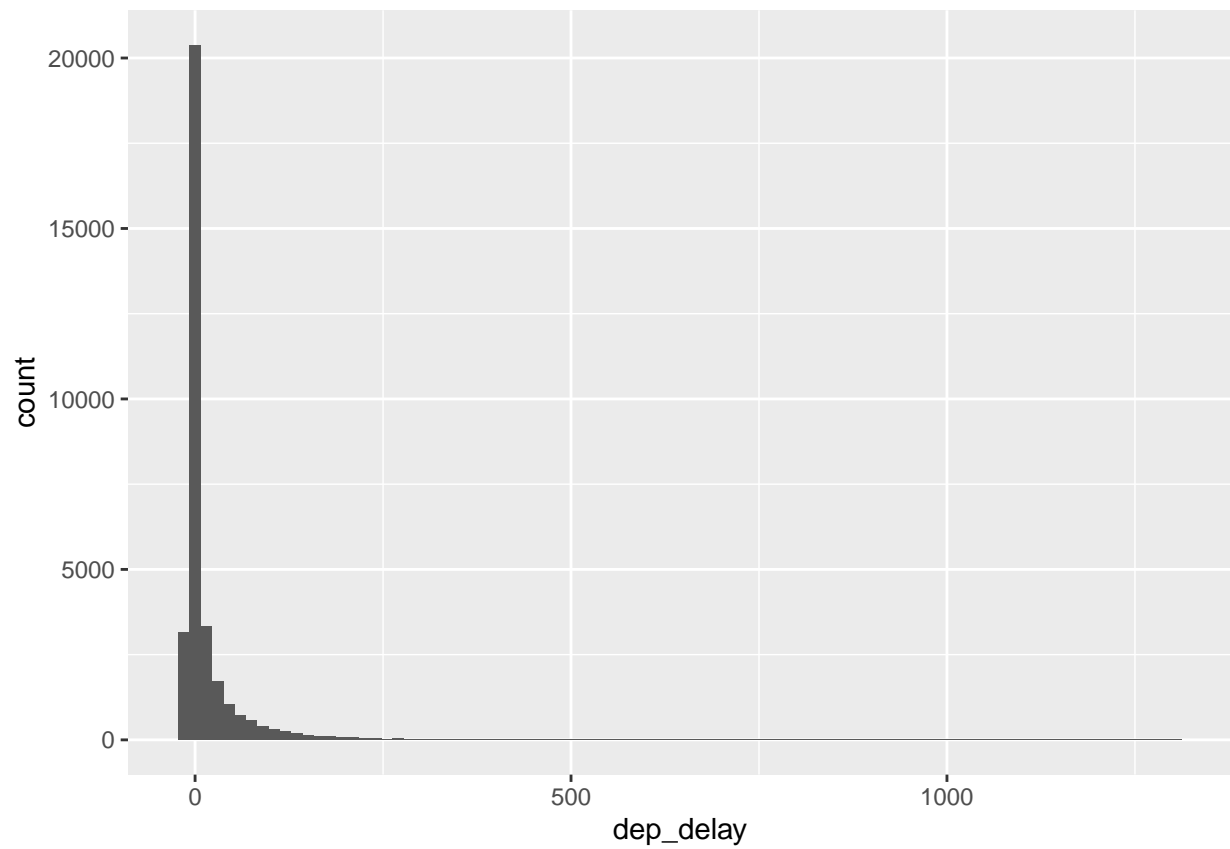
```
ggplot(data = nycflights, aes(x = dep_delay)) +
  geom_histogram()
```



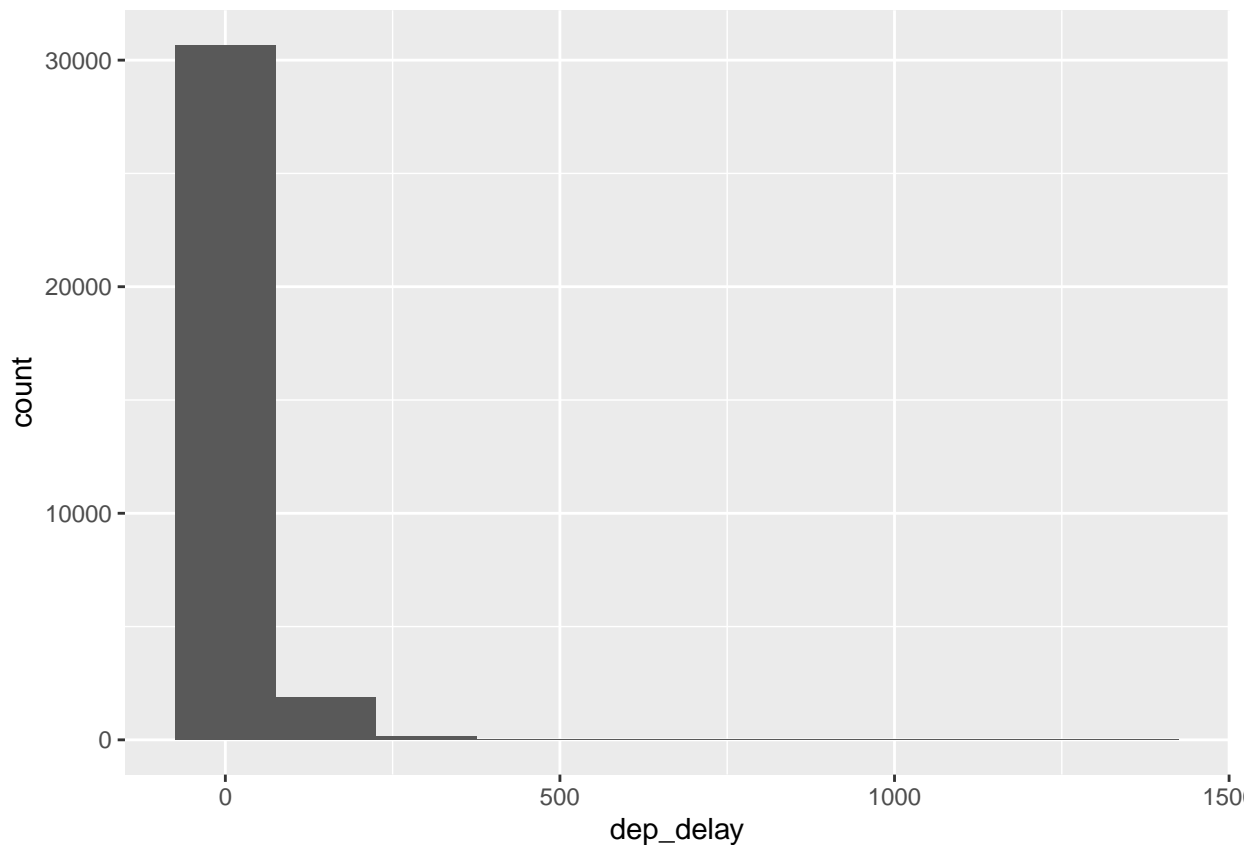
This function says to plot the `dep_delay` variable from the `nycflights` data frame on the x-axis. It also defines a `geom` (short for geometric object), which describes the type of plot you will produce.

Histograms are generally a very good way to see the shape of a single distribution of numerical data, but that shape can change depending on how the data is split between the different bins. You can easily define the binwidth you want to use:

```
ggplot(data = nycflights, aes(x = dep_delay)) +  
  geom_histogram(binwidth = 15)
```



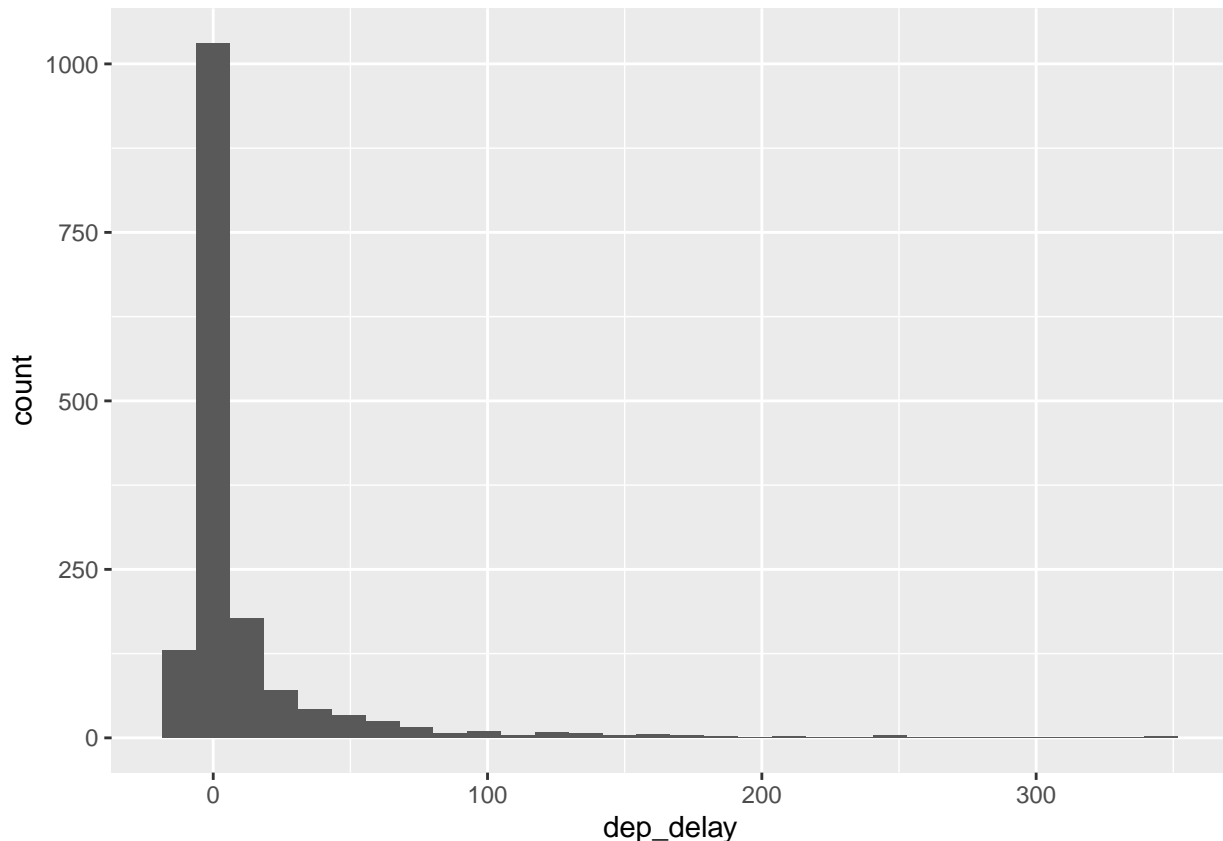
```
ggplot(data = nycflights, aes(x = dep_delay)) +  
  geom_histogram(binwidth = 150)
```



1. Look carefully at these three histograms. How do they compare? Are features revealed in one that are obscured in another?
 - These 3 histograms have similar shapes in that the distribution is skewed right with a peak (mode) close to a departure delay of 0. The bin width of each histogram is different, and a smaller bin width (i.e., higher number of bins) shows more granularity in the distribution of departure delay times for instance, the when the `binwidth` is set to 15, we see a strong peak in the histogram at 0. This is harder to see in the other two histograms because departure delays around (but not equal to) 0 are included in that same bin. Smaller bin size would be akin to more ticks on the axis of a dot or boxplot.

If you want to visualize only on delays of flights headed to Los Angeles, you need to first **filter** the data for flights with that destination (`dest == "LAX"`) and then make a histogram of the departure delays of only those flights.

```
lax_flights <- nycflights %>%
  filter(dest == "LAX")
ggplot(data = lax_flights, aes(x = dep_delay)) +
  geom_histogram()
```



Let's decipher these two commands (OK, so it might look like four lines, but the first two physical lines of code are actually part of the same command. It's common to add a break to a new line after `%>%` to help readability).

- Command 1: Take the `nycflights` data frame, `filter` for flights headed to LAX, and save the result as a new data frame called `lax_flights`.
 - `==` means "if it's equal to".
 - `LAX` is in quotation marks since it is a character string.
- Command 2: Basically the same `ggplot` call from earlier for making a histogram, except that it uses the smaller data frame for flights headed to LAX instead of all flights.

Logical operators: Filtering for certain observations (e.g. flights from a particular airport) is often of interest in data frames where we might want to examine observations with certain characteristics separately from the rest of the data. To do so, you can use the `filter` function and a series of **logical operators**. The most commonly used logical operators for data analysis are as follows:

- `==` means "equal to"
- `!=` means "not equal to"
- `>` or `<` means "greater than" or "less than"
- `>=` or `<=` means "greater than or equal to" or "less than or equal to"

You can also obtain numerical summaries for these flights:

```
lax_flights %>%
  summarise(mean_dd = mean(dep_delay),
            median_dd = median(dep_delay),
            n = n())
```

```
## # A tibble: 1 x 3
##   mean_dd median_dd    n
```

```
##      <dbl>      <dbl> <int>
## 1      9.78      -1  1583
```

Note that in the `summarise` function you created a list of three different numerical summaries that you were interested in. The names of these elements are user defined, like `mean_dd`, `median_dd`, `n`, and you can customize these names as you like (just don't use spaces in your names). Calculating these summary statistics also requires that you know the function calls. Note that `n()` reports the sample size.

Summary statistics: Some useful function calls for summary statistics for a single numerical variable are as follows:

- `mean`
- `median`
- `sd`
- `var`
- `IQR`
- `min`
- `max`

Note that each of these functions takes a single vector as an argument and returns a single value.

You can also filter based on multiple criteria. Suppose you are interested in flights headed to San Francisco (SFO) in February:

```
sfo_feb_flights <- nycflights %>%
  filter(dest == "SFO", month == 2)
```

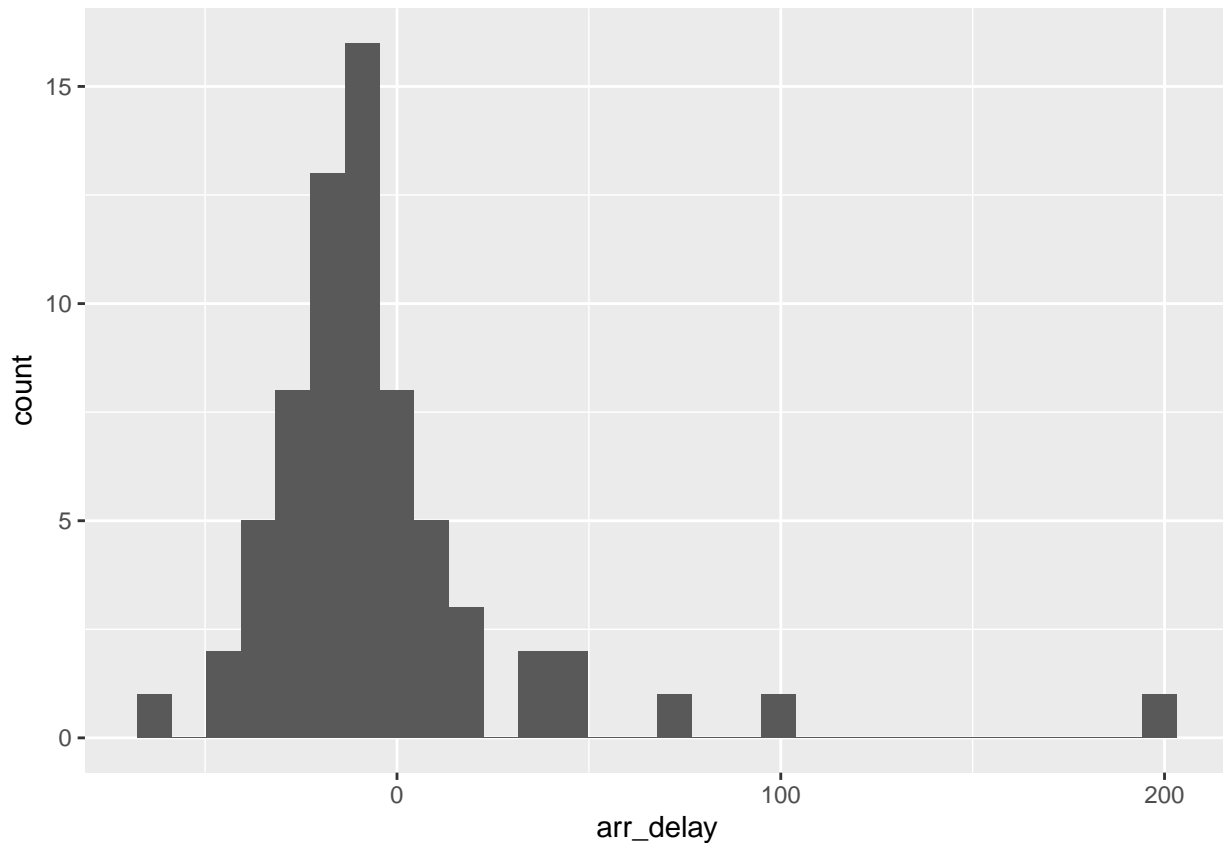
Note that you can separate the conditions using commas if you want flights that are both headed to SFO **and** in February. If you are interested in either flights headed to SFO **or** in February, you can use the `|` instead of the comma.

2. Create a new data frame that includes flights headed to SFO in February, and save this data frame as `sfo_feb_flights`. How many flights meet these criteria?

```
# Using the comma to serve as an "AND" operator on our filtering.
sfo_feb_flights <- nycflights %>%
  filter(dest == "SFO", month == 2)
```

3. Describe the distribution of the **arrival** delays of these flights using a histogram and appropriate summary statistics. **Hint:** The summary statistics you use should depend on the shape of the distribution.

```
ggplot(sfo_feb_flights, aes(x=arr_delay)) + geom_histogram()
```



```
sfo_feb_flights %>%
  summarise(median_ad = median(arr_delay),
            iqr_ad = IQR(arr_delay),
            n_flights = n())
```

```
## # A tibble: 1 x 3
##   median_ad iqr_ad n_flights
##   <dbl>   <dbl>   <int>
## 1     -11   23.2     68
```

Another useful technique is quickly calculating summary statistics for various groups in your data frame. For example, we can modify the above command using the `group_by` function to get the same summary stats for each origin airport:

```
sfo_feb_flights %>%
  group_by(origin) %>%
  summarise(median_dd = median(dep_delay), iqr_dd = IQR(dep_delay), n_flights = n())
```

```
## # A tibble: 2 x 4
##   origin median_dd iqr_dd n_flights
##   <chr>   <dbl>   <dbl>   <int>
## 1 EWR      0.5    5.75     8
## 2 JFK     -2.5   15.2    60
```

Here, we first grouped the data by `origin` and then calculated the summary statistics.

1. Calculate the median and interquartile range for `arr_delays` of flights in the `sfo_feb_flights` data frame, grouped by carrier. Which carrier has the most variable arrival delays?


```
# Using arr_delay field instead of dep_delay
sfo_feb_flights %>%
  group_by(origin) %>%
  summarise(median_dd = median(arr_delay), iqr_dd = IQR(arr_delay), n_flights = n())

## # A tibble: 2 x 4
##   origin median_dd iqr_dd n_flights
##   <chr>      <dbl> <dbl>    <int>
## 1 EWR      -15.5  17.5      8
## 2 JFK      -10.5  22.8     60
```

Departure delays by month

Which month would you expect to have the highest average delay departing from an NYC airport?

Let's think about how you could answer this question:

- First, calculate monthly averages for departure delays. With the new language you are learning, you could
 - `group_by` months, then
 - `summarise` mean departure delays.
- Then, you could `arrange` these average delays in **descending** order

```
nycflights %>%
  group_by(month) %>%
  summarise(mean_dd = mean(dep_delay)) %>%
  arrange(desc(mean_dd))
```

```
## # A tibble: 12 x 2
##   month mean_dd
##   <int>   <dbl>
## 1     7    20.8
## 2     6    20.4
## 3    12    17.4
## 4     4    14.6
## 5     3    13.5
## 6     5    13.3
## 7     8    12.6
## 8     2    10.7
## 9     1    10.2
## 10    9     6.87
## 11   11     6.10
## 12   10     5.88
```

5. Suppose you really dislike departure delays and you want to schedule your travel in a month that minimizes your potential departure delay leaving NYC. One option is to choose the month with the lowest mean departure delay. Another option is to choose the month with the lowest median departure delay. What are the pros and cons of these two choices?

We'll want to group our flights dataframe by month and then calculate the mean and media departure delays for each month. It appears that October (month 10) has the lowest mean departure delay, but is tied with September for median departure delay (-3 minutes). The median of a distribution is less resistant to outliers, so one very long delay could change the mean departure delay much more than the median. Looking at the histograms above, those are also skewed, meaning the mean and median won't necessarily be equal. These two choices do give a good sense of how much a traveler could expect to be delayed on a given flight.

```
nycflights %>%
  group_by(month) %>%
  summarise(mean_dep_delay_by_month = mean(dep_delay), median_dep_delay_by_month = median(dep_delay)) %>%
  arrange(desc(mean_dep_delay_by_month))
```

```
## # A tibble: 12 x 3
##   month mean_dep_delay_by_month median_dep_delay_by_month
##   <int>          <dbl>          <dbl>
## 1     7          20.8            0
## 2     6          20.4            0
## 3    12          17.4            1
## 4     4          14.6           -2
## 5     3          13.5           -1
## 6     5          13.3           -1
## 7     8          12.6           -1
## 8     2          10.7           -2
## 9     1          10.2           -2
## 10    9           6.87           -3
## 11   11           6.10           -2
## 12   10           5.88           -3
```

On time departure rate for NYC airports

Suppose you will be flying out of NYC and want to know which of the three major NYC airports has the best on time departure rate of departing flights. Also supposed that for you, a flight that is delayed for less than 5 minutes is basically “on time.” You consider any flight delayed for 5 minutes or more to be “delayed”.

In order to determine which airport has the best on time departure rate, you can

- first classify each flight as “on time” or “delayed”,
- then group flights by origin airport,
- then calculate on time departure rates for each origin airport,
- and finally arrange the airports in descending order for on time departure percentage.

Let’s start with classifying each flight as “on time” or “delayed” by creating a new variable with the `mutate` function.

```
nycflights <- nycflights %>%
  mutate(dep_type = ifelse(dep_delay < 5, "on time", "delayed"))
```

The first argument in the `mutate` function is the name of the new variable we want to create, in this case `dep_type`. Then if `dep_delay < 5`, we classify the flight as “on time” and “delayed” if not, i.e. if the flight is delayed for 5 or more minutes.

Note that we are also overwriting the `nycflights` data frame with the new version of this data frame that includes the new `dep_type` variable.

We can handle all of the remaining steps in one code chunk:

```
nycflights %>%
  group_by(origin) %>%
  summarise(ot_dep_rate = sum(dep_type == "on time") / n()) %>%
  arrange(desc(ot_dep_rate))
```

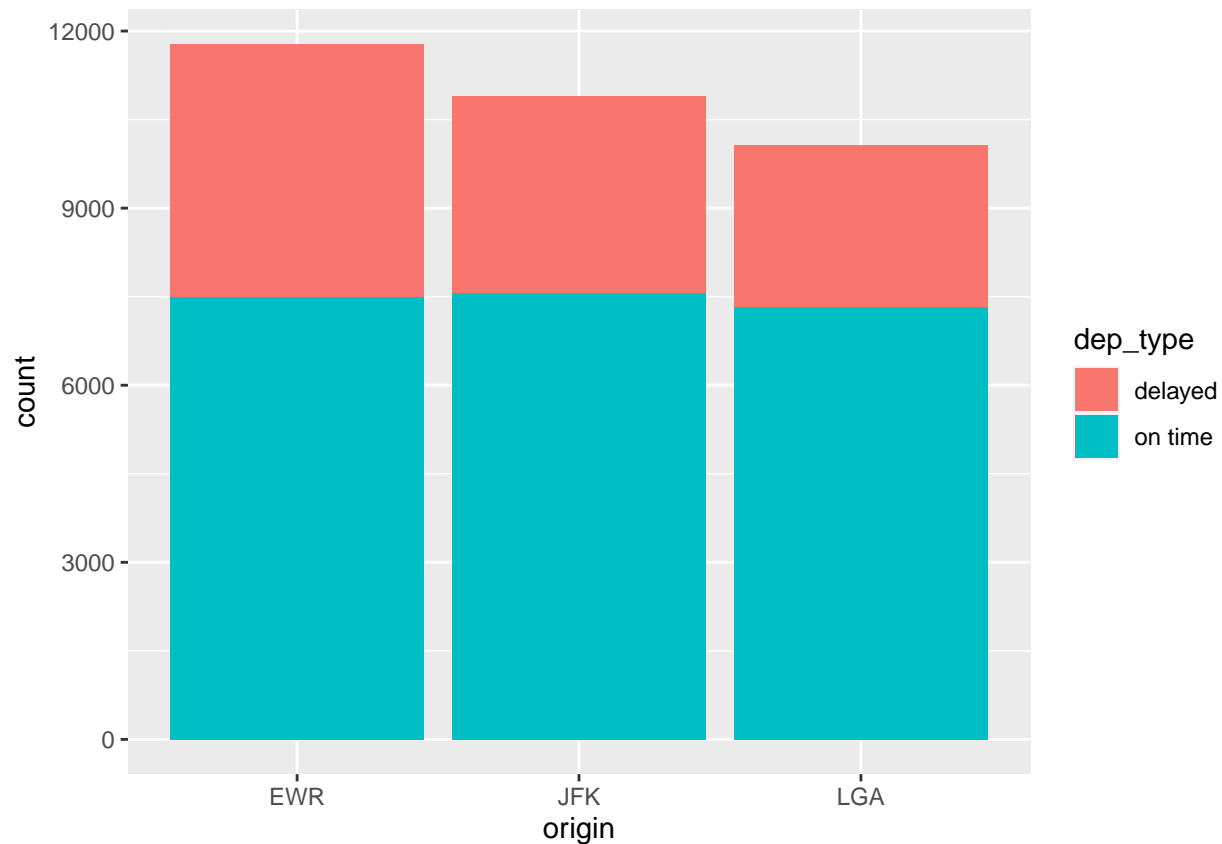
```
## # A tibble: 3 x 2
##   origin ot_dep_rate
##   <chr>      <dbl>
## 1 LGA         0.728
```

```
## 2 JFK          0.694
## 3 EWR          0.637
```

6. If you were selecting an airport simply based on on time departure percentage, which NYC airport would you choose to fly out of?

You can also visualize the distribution of on on time departure rate across the three airports using a segmented bar plot.

```
ggplot(data = nycflights, aes(x = origin, fill = dep_type)) +
  geom_bar()
```



Because the 3 airports have different total numbers of flights departing, we'll want to calculate percentage (delay rate). This can be calculated

```
nycflights %>%
  group_by(origin) %>%
  summarise(ot_dep_rate = sum(dep_type == "on time") / n()) %>%
  arrange(desc(ot_dep_rate))
```

```
## # A tibble: 3 x 2
##   origin ot_dep_rate
##   <chr>      <dbl>
## 1 LGA        0.728
## 2 JFK        0.694
## 3 EWR        0.637
```

LaGuardia (LGA) has the highest rate of on-time departures (72.8% of departing flights on-time), so we'll want to choose there if we want the best chance of leaving on time * * *

More Practice

7. Mutate the data frame so that it includes a new variable that contains the average speed, `avg_speed` traveled by the plane for each flight (in mph). **Hint:** Average speed can be calculated as distance divided by number of hours of travel, and note that `air_time` is given in minutes.

```
df <- nycflights %>%  
  mutate(avg_speed = distance / (air_time / 60)) # converting travel time to hours  
df$avg_speed
```

```
##      [1] 474.4409 443.8889 394.9468 446.6667 355.2000 318.6957 352.7500 285.0000  
##      [9] 444.3243 447.2727 316.8000 402.4845 367.5862 439.6154 346.9565 319.2453  
##     [17] 265.3333 489.6183 356.5289 464.5509 346.5517 414.0000 398.5714 437.4888  
##     [25] 310.8571 346.2651 321.3861 319.2453 422.8213 391.1688 369.6774 435.4455  
##     [33] 491.7219 418.8350 410.1266 515.4839 391.1688 443.5714 225.6000 508.5616  
##     [41] 241.1321 371.7949 395.1724 335.6757 396.8571 339.5745 475.7003 441.9643  
##     [49] 377.4419 322.3077 382.5503 401.4765 422.8481 400.3738 327.6923 392.6786  
##     [57] 418.8350 372.7119 401.7722 366.0000 327.3913 485.2041 472.2414 322.5000  
##     [65] 372.9231 311.3793 397.5652 448.2353 276.0000 480.0000 404.5631 345.0000  
##     [73] 323.2000 417.4233 282.8571 327.6923 395.5472 491.3793 432.4615 407.3913  
##     [81] 362.5532 282.6667 366.0000 349.6552 356.4706 491.8182 485.7534 476.5217  
##     [89] 426.2857 291.2195 367.0968 463.0435 438.4000 400.7407 367.0588 277.3770  
##     [97] 440.5181 353.6585 456.8182 352.6154 507.3016 404.6218 447.3913 464.4795  
##    [105] 411.0000 396.8571 428.2759 356.3636 440.0000 468.8421 363.9024 423.3333  
##    [113] 342.8049 337.1053 444.6108 315.7895 429.8061 422.7068 450.7143 427.1287  
##    [121] 443.3898 403.8158 316.8421 382.4096 346.2069 356.2500 346.2857 398.7560  
##    [129] 455.6250 417.9926 426.0000 393.2530 397.6119 431.3208 363.5714 440.3636  
##    [137] 465.9459 338.6667 370.3448 450.4110 467.4286 352.6154 452.3077 421.9608  
##    [145] 393.2484 364.2857 265.3333 456.9231 436.2162 432.9446 440.6528 395.3374  
##    [153] 363.9024 340.0000 397.7778 199.0000 262.8571 459.7523 430.4348 414.9057  
##    [161] 445.4167 380.2941 375.1724 432.8182 491.6129 353.4884 436.6667 444.4898  
##    [169] 348.5714 327.0000 401.0526 445.1485 277.5000 445.3125 440.8383 249.3333  
##    [177] 427.4566 466.6667 419.2157 432.6316 453.9924 372.9231 409.7561 371.7791  
##    [185] 254.4000 346.8750 377.8218 410.4348 465.0000 281.6949 423.1788 465.2174  
##    [193] 472.4026 412.0958 311.3793 376.7647 484.0000 449.7391 444.7423 405.0000  
##    [201] 363.0682 419.2157 389.2174 380.3390 269.2683 283.0769 439.6460 424.2553  
##    [209] 327.6923 429.1908 409.7872 384.2449 429.0909 396.9767 369.6774 224.4000  
##    [217] 481.8750 421.8750 414.8077 283.0769 338.5714 411.0000 467.7073 418.8462  
##    [225] 406.9231 433.2414 476.5217 455.4448 368.0255 327.6923 416.7273 393.2530  
##    [233] 348.8000 304.4776 307.9245 448.7671 286.5517 328.3636 405.4286 433.0909  
##    [241] 443.4462 441.0811 429.5876 332.0611 449.6000 383.1933 378.4211 337.0312  
##    [249] 388.5714 449.1979 521.2270 397.5949 416.4706 316.8421 439.3878 483.7134  
##    [257] 454.8066 422.8767 345.0000 412.2449 385.1786 466.6667 413.8318 503.8583  
##    [265] 405.4286 435.4286 390.9677 321.0000 397.5000 438.6486 458.1429 346.4901  
##    [273] 288.0000 432.4615 458.0597 335.6044 450.0000 436.6667 384.7059 402.4615  
##    [281] 393.8912 423.3103 438.4615 394.8387 388.0240 435.4967 375.4054 414.0000  
##    [289] 398.5185 465.9459 376.7647 365.4194 420.8333 237.2222 446.0870 414.6835  
##    [297] 406.9388 378.4000 372.3179 434.6218 424.4541 376.1345 452.9492 448.2353  
##    [305] 354.2466 432.3664 352.5000 405.0000 360.0000 418.2210 448.0000 446.1818  
##    [313] 413.8318 461.4433 332.9889 352.5000 430.6329 392.6786 409.4340 372.9070  
##    [321] 307.6923 413.0233 350.9589 447.9070 425.3659 497.3077 344.8485 509.8429  
##    [329] 427.9539 340.8000 465.0000 322.5000 452.0930 427.1053 432.3664 479.0323  
##    [337] 453.3871 324.3038 393.3333 438.0531 292.6829 377.8151 420.0000 448.2353  
##    [345] 480.9375 406.2385 434.6218 425.0299 475.9615 379.2453 242.2642 393.8756
```

```

## [353] 461.4388 342.8571 465.9494 424.2291 355.5224 454.1250 404.0625 477.9503
## [361] 451.0465 409.2857 436.3918 399.8182 385.9701 460.4154 409.5522 370.9091
## [369] 405.4839 485.2041 352.0879 306.1538 352.6154 412.4409 371.8966 379.1489
## [377] 495.9441 424.3228 430.9091 480.4412 325.7143 252.3529 419.4393 421.9081
## [385] 382.3881 444.7826 427.0130 427.4286 428.9109 388.4211 435.0920 356.5574
## [393] 473.0488 285.7143 438.4615 311.3793 115.2000 295.6522 447.2892 385.7143
## [401] 449.7600 331.6667 349.9237 452.3810 395.8163 445.5789 427.3333 411.2102
## [409] 369.5652 286.2500 290.5263 495.0000 290.0000 499.3750 471.4599 469.9367
## [417] 451.6564 462.2727 485.8909 468.7613 399.0826 394.4444 453.6810 426.4486
## [425] 328.3636 460.1408 367.3171 324.7059 419.2157 430.4348 418.4615 348.5714
## [433] 399.3377 279.1837 328.3636 477.5373 315.4286 391.7647 434.6429 321.7450
## [441] 414.6269 316.8421 380.0000 437.0704 417.5510 453.1915 369.7059 377.6147
## [449] 267.5000 292.3404 411.9231 458.7755 349.3151 413.5849 246.9231 459.8734
## [457] 450.4865 462.6168 421.5484 384.0000 322.5000 435.3061 440.7207 258.2609
## [465] 360.3846 320.0000 285.3333 371.8519 313.5849 414.8045 431.7483 411.0280
## [473] 456.9789 463.0108 445.9843 425.7692 424.2254 487.3684 473.5385 311.6667
## [481] 422.3762 262.0408 411.0924 386.5385 388.1818 427.2857 345.3061 296.2887
## [489] 479.4000 379.5349 410.5419 464.2623 339.6850 342.8571 384.4898 306.6667
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## [729] 364.0000 461.3333 262.0408 413.3898 448.2353 446.7153 243.9130 420.0000
## [737] 439.7938 375.4054 419.2208 451.4189 394.5455 447.1470 436.6667 365.7534
## [745] 378.9041 493.1818 370.4854 404.6018 466.6667 381.7699 312.6316 316.8421
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## [777] 441.9310 392.6667 411.2102 430.9265 354.4186 467.8261 417.3000 412.6596

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##	[785]	454.4444	409.7561	438.0984	236.6667	454.8066	382.3256	474.9296	358.9286
##	[793]	415.7647	256.7442	328.7179	413.8462	352.6316	384.0719	364.9315	417.7966
##	[801]	478.6709	382.2936	408.5294	459.4030	502.5000	242.2642	407.5085	340.0000
##	[809]	428.5714	385.5682	350.3743	352.9412	394.3662	422.7793	439.5395	414.2857
##	[817]	435.2332	433.1707	421.8750	457.6027	419.1176	424.9123	276.1905	352.9412
##	[825]	370.1961	456.9231	445.3125	316.8421	392.3077	395.1724	419.2208	315.4286
##	[833]	468.4543	375.1724	477.4920	418.2210	319.5000	447.6316	411.4286	418.8350
##	[841]	394.1379	470.6422	404.5055	359.3684	306.6667	422.3377	442.8374	187.0000
##	[849]	415.6364	385.8333	423.8961	450.0000	435.4286	296.9492	472.0859	433.4078
##	[857]	428.6188	451.3678	298.6047	434.2105	431.3208	395.5172	271.3636	425.5414
##	[865]	380.3390	424.4595	435.8744	344.3836	452.3615	421.8750	432.4615	360.9756
##	[873]	429.3593	371.8519	425.5014	192.0000	344.4706	349.1667	409.7872	491.2782
##	[881]	418.3178	370.1613	370.9091	505.6684	392.6786	426.9347	440.8333	463.1642
##	[889]	399.8182	306.6667	369.1525	304.2857	304.6154	370.0000	387.2727	442.3358
##	[897]	403.4483	459.3103	385.2000	418.8350	371.5385	397.8462	324.7059	416.7273
##	[905]	411.5385	383.4615	242.2642	398.8732	430.0671	446.8085	466.0274	405.0000
##	[913]	482.1429	454.8592	366.8182	208.8889	451.3235	290.5263	451.2796	408.2143
##	[921]	456.3981	459.7523	392.6786	408.6076	277.6744	432.4528	438.5235	399.4444
##	[929]	343.2558	342.5455	461.7021	419.6450	477.6923	327.3913	403.2955	440.2878
##	[937]	334.4444	404.3243	398.9691	289.8214	423.8961	384.1667	405.6667	381.3953
##	[945]	327.3913	389.0909	420.3797	422.6866	282.8571	352.5000	474.5763	342.5197
##	[953]	508.5616	432.6087	276.7742	447.1470	384.3243	440.0000	394.9763	439.0332
##	[961]	397.5000	407.1429	316.3636	334.6154	460.4420	316.4706	384.0000	359.4760
##	[969]	446.6292	403.3333	426.9903	366.5000	467.7073	465.2174	469.9652	468.5000
##	[977]	481.1278	370.8333	374.7541	316.2963	324.3038	331.3043	493.3846	291.8182
##	[985]	456.6412	398.1043	232.3636	447.0588	463.0986	358.8571	446.1429	433.6977
##	[993]	420.9091	372.7119	419.2157	311.6667	375.4601	386.1538	427.2000	311.6667
##	[1001]	429.5706	457.8723	295.2632	413.4194	391.3761	415.6364	330.0000	341.1429
##	[1009]	323.2500	450.6294	346.9565	475.8382	333.3333	285.7143	387.0000	366.8852
##	[1017]	322.7027	285.7143	435.1145	424.2553	404.6018	289.7143	234.8936	327.8788
##	[1025]	394.8148	400.2484	398.5455	410.8108	430.0671	369.5798	447.9755	273.6000
##	[1033]	452.6733	334.2857	320.4255	429.9552	404.6018	260.9302	372.0000	460.4154
##	[1041]	477.4920	420.7792	383.5714	374.5455	447.1470	450.0000	389.8204	391.8584
##	[1049]	428.2759	463.4084	455.4448	356.5714	406.4865	438.9706	372.9231	333.6585
##	[1057]	340.7143	428.1905	419.5522	374.7826	471.0236	354.6774	411.0280	476.3758
##	[1065]	444.6108	419.1176	441.9643	407.3684	259.4595	452.9348	388.4636	369.6774
##	[1073]	385.3448	382.0000	461.7857	440.3636	426.6279	400.3125	408.4034	373.4118
##	[1081]	484.5349	400.7407	416.4935	290.5263	489.1694	476.4706	441.8182	433.8305
##	[1089]	410.7383	277.8947	424.2581	454.1414	342.9630	260.8696	456.6176	405.0000
##	[1097]	388.3784	433.6364	439.4595	322.2222	212.3077	307.8947	419.5556	432.2293
##	[1105]	321.5385	351.4773	395.6075	390.7692	225.3061	448.0814	412.2078	260.8163
##	[1113]	388.5714	307.3684	155.6757	406.9231	498.5821	285.7143	501.9895	478.8197
##	[1121]	403.4483	463.0189	339.5745	311.7073	391.8182	412.3636	401.1765	445.4167
##	[1129]	547.8857	398.9189	292.6829	334.2857	459.2308	378.2609	434.2105	381.6000
##	[1137]	422.9412	410.8861	440.4000	409.4737	410.7692	371.7073	410.8475	372.4390
##	[1145]	421.9081	437.4468	384.1667	459.4030	371.2500	491.7219	434.6218	313.5000
##	[1153]	277.6744	406.4865	400.7547	468.2353	400.9938	452.3615	504.6512	435.9494
##	[1161]	420.0000	395.8537	317.8571	480.1869	418.9655	322.2222	454.8936	399.4444
##	[1169]	420.9868	355.3488	323.8710	498.5821	442.0513	413.7097	445.2414	412.5000
##	[1177]	252.3529	420.0000	406.2857	444.8148	424.4444	460.9615	460.1408	441.8605
##	[1185]	318.7500	473.0696	431.4970	438.4000	389.2035	470.8738	439.3491	438.6316
##	[1193]	435.4079	404.7887	420.8646	459.0533	312.9412	365.8667	321.0219	412.3256
##	[1201]	345.1200	398.0769	452.6471	457.7419	440.6528	388.3929	330.5263	414.6269
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## [1217] 338.4000 439.6460 396.0000 479.4393 267.5000 448.6880 408.8818 393.2530
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## [1513] 260.9302 406.4151 456.9231 338.0198 376.1345 372.5373 474.5763 395.7798
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## [1625] 443.1683 280.5000 333.1818 439.7938 388.6486 429.8061 478.2439 340.9302
## [1633] 391.2676 398.8732 452.1127 393.2530 411.0169 302.6087 375.9292 482.4490
## [1641] 355.0459 350.3743 425.5014 397.5330 422.8571 412.5424 497.4709 351.9588

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##	[1649]	420.0000	261.7391	485.6693	459.8601	457.9121	400.8750	384.3243	429.8061
##	[1657]	413.6683	378.1579	289.3220	423.2000	443.5714	451.8261	328.4211	418.8535
##	[1665]	224.4000	395.7692	410.5714	466.1765	430.0671	408.0000	354.3529	260.9302
##	[1673]	416.5217	475.2709	436.2162	433.9286	475.9615	476.6790	365.7534	409.2000
##	[1681]	390.7692	277.8261	411.1111	449.5853	405.5814	451.3678	405.1613	452.1019
##	[1689]	360.4918	491.7219	454.6667	474.4409	273.6585	292.3404	388.3929	454.2056
##	[1697]	372.7119	408.0000	380.1242	379.2453	422.8767	220.3448	471.5254	372.5373
##	[1705]	371.3043	405.0450	419.4495	428.0357	340.7547	367.8689	413.6170	404.4304
##	[1713]	375.8974	441.8605	472.8000	424.1905	328.0374	400.0000	378.8136	471.4286
##	[1721]	422.9412	413.8462	373.1034	404.6218	482.5668	429.6774	425.0000	390.6207
##	[1729]	422.7068	402.4543	408.0000	434.5631	489.1837	290.5263	452.9492	375.1579
##	[1737]	386.0870	326.5714	394.6667	311.3793	395.7692	479.4000	365.0943	402.6316
##	[1745]	370.1299	444.7826	283.0769	451.4851	362.6667	318.0000	288.0000	441.0811
##	[1753]	415.4167	155.6757	393.2530	442.0513	425.4902	255.6923	300.0000	345.2381
##	[1761]	408.2143	445.3125	424.8529	360.0000	443.2836	260.9302	377.2941	412.2078
##	[1769]	376.1345	411.0280	436.7647	354.2466	334.6154	343.5938	304.2857	441.7742
##	[1777]	404.6018	467.2131	365.3846	460.9615	340.7547	448.3333	378.2609	325.8824
##	[1785]	399.8182	456.0410	355.0459	470.4153	417.1348	331.8462	341.1765	393.4969
##	[1793]	422.3301	378.0000	403.3333	471.9231	419.5522	419.5556	298.6047	377.8571
##	[1801]	394.7453	386.6272	372.9231	374.2105	423.1788	413.5443	281.6949	457.6991
##	[1809]	375.8824	430.9091	473.8095	453.3333	371.3043	454.8936	451.7419	446.4179
##	[1817]	381.7699	438.4286	447.1385	360.0000	489.1694	346.9565	437.1429	377.8481
##	[1825]	291.6279	459.7122	406.3636	319.5000	330.0000	452.1127	296.0656	460.7586
##	[1833]	262.8571	401.5714	405.5814	394.1379	346.2069	356.6292	450.0000	446.3102
##	[1841]	496.7876	499.1186	446.6225	342.2727	364.8276	386.1224	364.3373	408.4472
##	[1849]	396.2162	335.2941	404.4604	452.3077	387.8182	366.5060	293.3333	435.4286
##	[1857]	298.6047	456.9231	439.6154	364.7458	402.6087	323.8776	405.5814	341.2500
##	[1865]	384.7619	291.2195	454.1053	383.1683	395.5425	404.5455	455.3846	469.5820
##	[1873]	401.2500	451.3196	369.4286	433.9073	442.2295	328.8889	448.0374	342.8571
##	[1881]	280.5000	387.8182	410.6422	283.3929	396.2162	433.2414	379.5349	461.9178
##	[1889]	400.2353	477.0149	443.4375	396.8571	314.8387	267.1429	425.2747	316.8421
##	[1897]	347.3077	390.0000	380.0000	318.1395	413.7931	322.2222	433.1707	320.0000
##	[1905]	353.9568	444.8168	447.1470	418.4615	370.9565	390.7692	440.2326	273.6585
##	[1913]	387.0732	477.2185	414.6269	453.3871	393.1034	307.6923	341.2500	234.8936
##	[1921]	430.4698	458.7560	469.7872	460.6635	256.8000	435.8744	388.5714	311.6667
##	[1929]	369.5652	453.4021	380.5479	471.9101	384.4898	402.6316	367.2727	433.4694
##	[1937]	375.4054	279.3443	352.4409	283.0769	300.0000	437.8723	410.7692	447.9070
##	[1945]	415.5195	475.1825	423.8961	411.8919	342.3810	392.6471	424.3228	340.0000
##	[1953]	310.9091	421.8911	453.6842	422.6866	503.2836	361.3043	273.1915	401.5714
##	[1961]	330.0000	385.9459	435.8140	412.1311	464.4304	359.3684	431.8135	245.7692
##	[1969]	405.9060	389.3878	453.9924	413.3824	310.5882	433.8462	464.2623	502.6943
##	[1977]	434.9068	345.6000	411.7500	410.8571	411.0280	482.7541	431.8182	451.3196
##	[1985]	410.0000	459.0533	418.9474	440.2878	367.3743	442.3944	458.7097	411.6000
##	[1993]	291.2195	420.8333	452.0833	354.1176	422.4490	221.1111	435.4967	340.0000
##	[2001]	443.2836	413.0435	471.0938	232.3636	442.1918	354.6667	418.2692	434.0625
##	[2009]	387.4576	383.3094	250.8000	399.8182	362.8916	315.7895	259.5652	418.5222
##	[2017]	344.3478	347.7907	440.4969	426.7606	489.0909	460.0000	272.5532	366.0000
##	[2025]	433.1034	445.9535	388.6486	414.9057	429.7143	459.6774	424.2581	438.4615
##	[2033]	435.8427	302.8916	295.2632	425.3571	490.2439	449.6000	313.5849	401.0959
##	[2041]	386.7692	360.0000	366.7416	490.1274	305.7143	392.9204	390.7595	457.9121
##	[2049]	495.2577	248.7500	429.2711	438.2877	378.1818	418.0583	427.9570	425.3571
##	[2057]	328.3636	392.5234	330.8333	457.8056	367.5862	453.1915	445.8113	356.1290
##	[2065]	335.0000	268.2353	453.6842	460.2985	431.8135	431.2500	336.5517	393.6000
##	[2073]	404.5714	298.6047	398.8689	406.7176	451.6783	502.3308	347.0270	499.3750

##	[2081]	454.6479	319.0654	465.2308	371.1628	446.9565	316.8000	412.5517	443.8835
##	[2089]	434.0000	303.2432	180.0000	426.6000	491.7434	437.8378	366.9421	439.3151
##	[2097]	346.2651	384.9558	433.9073	373.4118	330.7143	335.8442	379.2857	414.8663
##	[2105]	201.4286	287.6923	334.2857	388.1818	399.8969	395.3571	457.6415	489.1837
##	[2113]	324.3243	430.5263	398.4146	380.9091	426.4706	422.6866	298.6047	415.0154
##	[2121]	366.5455	354.1622	426.4486	384.3243	422.6393	441.9643	281.6667	459.5676
##	[2129]	408.2143	398.5263	279.1837	364.3750	455.0147	417.7966	427.2897	368.5714
##	[2137]	357.0732	332.7273	443.1683	422.1106	496.7876	214.0000	340.4651	310.9756
##	[2145]	424.2291	412.4771	307.6923	496.7876	391.8072	404.2553	414.6269	305.3333
##	[2153]	306.6667	319.6154	456.9811	387.4576	456.6667	434.0426	320.5714	369.0698
##	[2161]	366.8852	398.8000	320.5714	401.9139	396.9863	428.1905	435.3982	334.6988
##	[2169]	446.4179	458.7560	259.5652	504.6316	378.6076	460.2857	482.9557	415.9664
##	[2177]	433.3784	314.8936	306.1538	355.2000	376.7647	437.8378	499.3750	289.6154
##	[2185]	404.7458	416.5161	424.1618	376.4029	456.3529	417.1034	273.6585	298.3784
##	[2193]	435.4967	408.6076	382.4348	375.8974	408.2143	319.5000	392.1687	392.6786
##	[2201]	373.4118	426.2857	460.8197	343.4043	370.0000	401.6529	445.6684	376.6667
##	[2209]	418.7940	349.1566	409.7260	396.3158	430.4348	431.6860	431.2500	400.5195
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##	[2225]	404.7458	448.6405	371.8519	339.7297	408.0000	396.1062	352.6667	321.8919
##	[2233]	341.2048	363.5714	355.8333	347.2500	291.2195	384.0000	379.8649	375.2941
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##	[6409]	476.0000	372.9231	314.0625	304.6552	473.4405	376.5000	353.6066	422.3684
##	[6417]	250.5882	425.1827	333.3333	291.2195	436.3265	329.6970	431.1258	373.8129
##	[6425]	412.9412	499.3750	405.2980	469.9367	432.3649	458.9905	474.6369	461.4433
##	[6433]	459.6774	439.6154	358.6813	404.6018	245.7692	399.7500	487.7612	411.0811
##	[6441]	430.8850	361.0526	338.9313	484.0909	398.8732	440.4255	266.2500	350.4878
##	[6449]	475.9615	301.2000	395.7798	342.8571	435.6000	447.3469	399.8182	354.3529
##	[6457]	331.2245	438.4615	419.4495	422.2642	375.1724	315.9494	479.0323	381.0191
##	[6465]	298.5714	464.9547	450.0000	460.1250	461.1429	280.5000	417.6316	361.0169
##	[6473]	434.9495	435.8140	384.7059	388.9655	436.5049	494.2268	320.5714	393.3333
##	[6481]	469.7455	448.4393	445.5882	401.0526	460.4878	452.7439	304.4776	160.0000
##	[6489]	433.4783	394.1379	372.5874	388.4043	328.3636	419.4495	424.6479	371.7949
##	[6497]	389.7248	456.0410	424.3636	445.2439	410.6422	425.8647	396.1062	434.5631
##	[6505]	418.3178	492.4832	313.0070	411.1538	456.4286	389.4393	456.7347	427.9720
##	[6513]	408.1529	410.2041	424.1509	395.9155	339.5745	452.1127	493.3663	474.0000
##	[6521]	444.1667	321.4737	396.1062	445.8904	279.4521	406.2857	342.5197	269.2683
##	[6529]	292.0000	478.6592	427.6596	389.8089	463.4043	462.0217	384.2857	300.0000
##	[6537]	364.3373	398.5455	369.8684	425.4902	311.6667	373.4118	459.0533	375.8974
##	[6545]	332.5000	380.0905	390.1422	377.8571	428.4112	337.0213	330.0000	390.4478
##	[6553]	362.6667	381.1321	444.3564	450.1408	402.4138	362.8916	415.2381	298.6047
##	[6561]	362.5455	412.6027	334.2857	345.0000	331.4563	393.0380	376.2353	465.5172
##	[6569]	320.0000	269.4118	365.4545	360.7792	468.7613	256.8000	451.6564	305.3333
##	[6577]	416.4935	435.2443	407.1429	329.2308	406.5421	411.4013	422.8767	434.2105
##	[6585]	423.3333	468.3453	456.3529	416.0584	418.3178	313.7500	413.7110	432.0000
##	[6593]	381.7500	375.1724	298.5000	238.8000	453.1818	380.2941	442.2222	340.0000
##	[6601]	419.4495	315.7895	431.1765	411.7021	427.2897	442.3944	397.5000	442.6772
##	[6609]	385.3061	402.9545	417.3077	404.5714	369.3913	445.6684	445.9843	366.5000
##	[6617]	472.3153	370.9091	268.2353	351.3861	355.0000	360.6186	422.2642	342.0000
##	[6625]	448.0645	330.0000	384.2857	304.6154	372.2727	342.9412	396.0736	347.3077
##	[6633]	428.6908	382.3881	373.0000	406.5421	383.5897	389.4393	398.5455	341.6842
##	[6641]	304.6154	390.7692	398.3851	413.0137	450.0000	445.8333	524.3478	510.0000
##	[6649]	375.2542	355.5224	322.5000	359.1667	427.9720	286.6667	338.4000	354.8148
##	[6657]	445.8333	346.5517	377.8218	398.4146	451.6901	412.5000	429.0909	463.7594
##	[6665]	431.1765	420.0000	443.4783	496.7876	468.3453	431.7889	437.6712	426.5285
##	[6673]	290.5263	381.6754	394.4444	424.4444	418.2065	347.2340	434.7458	402.9630
##	[6681]	450.6569	413.0769	373.1707	447.2892	338.4270	401.4085	338.4270	436.6507
##	[6689]	399.6429	453.1200	276.0000	234.0845	419.4915	387.7551	412.4771	385.7895
##	[6697]	380.6061	393.7725	424.7682	395.6757	441.3423	385.0435	348.5106	435.6000
##	[6705]	346.4706	448.5315	401.7722	429.2711	447.4390	340.2632	456.4286	436.6572
##	[6713]	421.9608	342.8571	460.2985	386.9663	279.1837	325.2174	422.8846	313.7500
##	[6721]	279.8361	285.0000	416.7000	418.9655	396.7500	481.1765	446.1818	407.0270
##	[6729]	372.1154	461.4388	271.3636	439.6154	411.0000	413.7097	416.7097	450.2752
##	[6737]	437.8723	358.9744	330.7895	426.2400	404.0625	379.1379	339.8438	459.7523
##	[6745]	456.3981	255.0000	408.2143	453.2710	491.6923	450.1408	389.4393	435.4286
##	[6753]	361.3043	426.2857	266.2500	372.6316	427.1795	394.1379	481.8634	448.6405
##	[6761]	459.7523	312.0000	341.1765	277.5000	376.0563	366.5000	429.8039	461.5674
##	[6769]	427.5497	456.6176	377.8512	407.5248	396.8944	425.0959	382.3881	442.0859
##	[6777]	429.5876	311.6667	450.0000	456.5217	445.8904	363.0769	456.4286	460.4878
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##	[6809]	298.6047	291.8182	305.7143	411.2583	328.3636	390.7059	430.9859	414.8077
##	[6817]	298.6047	362.2500	410.0000	360.9449	410.8475	371.0429	434.5631	412.0755
##	[6825]	413.0233	457.0714	451.3196	449.5238	407.6667	379.3333	443.3898	443.9203

##	[6833]	391.8519	404.4604	395.0000	315.1456	315.4286	432.8000	298.6047	358.5714
##	[6841]	422.8213	295.2632	289.6154	424.2424	455.5215	304.8214	397.3770	361.5254
##	[6849]	404.0625	402.7500	511.2883	285.3333	398.8689	349.4595	343.8710	364.2478
##	[6857]	486.8919	381.0000	418.9655	396.7500	439.5224	406.2385	482.9434	290.0000
##	[6865]	385.9701	436.6507	480.0000	422.6087	494.1401	452.1127	298.6047	420.5240
##	[6873]	306.1017	410.6422	406.2857	360.0000	310.7143	244.6154	463.7594	397.8462
##	[6881]	381.2422	494.2268	457.5472	419.4495	342.8571	404.0000	504.6512	407.0270
##	[6889]	348.5714	383.6842	439.6460	439.1304	361.5254	439.6154	434.5631	348.5106
##	[6897]	309.7674	437.6712	417.1875	382.4096	404.4444	445.9233	445.1707	473.1034
##	[6905]	384.2017	461.5674	452.2936	458.9809	290.5263	391.8206	392.6786	316.8421
##	[6913]	439.0698	433.1034	328.8889	442.1053	474.4954	337.8947	442.5000	404.0625
##	[6921]	421.5385	414.9057	383.5897	382.0000	410.8571	470.1818	431.8386	406.9231
##	[6929]	419.5918	461.4388	398.9189	439.8190	242.4490	451.9149	432.3664	466.4234
##	[6937]	351.4286	356.0870	459.4030	481.8090	375.2542	148.1481	262.8571	410.6422
##	[6945]	473.2632	390.4110	524.3478	424.1983	418.7940	425.5014	424.2857	298.6047
##	[6953]	499.0244	472.1555	498.3221	316.1111	419.1781	387.0732	427.9091	385.9873
##	[6961]	321.9403	439.5224	401.7722	440.9639	350.9677	285.3333	403.2432	419.2157
##	[6969]	509.1979	313.5000	448.2353	387.5294	489.3182	445.1485	433.0357	470.4930
##	[6977]	456.6766	340.2632	449.5238	416.4103	477.4920	414.4444	400.7407	313.1707
##	[6985]	473.3702	380.3390	370.3448	447.1579	419.4495	391.8182	437.6712	397.8462
##	[6993]	368.6441	316.1111	338.3077	386.0870	423.3333	486.3830	451.6129	456.7742
##	[7001]	425.1327	319.5000	375.2113	451.4189	330.0000	386.4000	419.5522	454.1284
##	[7009]	427.6000	283.0769	387.0000	441.1364	434.6218	420.0000	375.1724	455.8514
##	[7017]	302.1818	450.0000	381.0000	396.0736	346.9565	454.3316	417.5294	317.8571
##	[7025]	338.4270	208.8889	480.5825	410.6422	446.1920	333.1250	391.1688	462.2093
##	[7033]	401.0169	286.5517	428.7500	478.9916	419.2208	321.1765	359.1667	304.6154
##	[7041]	285.7143	447.9263	194.5455	440.1951	413.8462	413.6170	480.0000	426.0000
##	[7049]	325.7143	434.3363	419.5276	422.8846	419.4495	408.0000	477.4920	426.8354
##	[7057]	361.7391	398.0488	280.4082	406.9231	415.8621	321.3861	459.7153	389.2035
##	[7065]	382.1053	402.6316	349.6875	408.0000	413.7110	351.8182	374.8000	479.4000
##	[7073]	379.1379	475.5160	308.2979	440.2139	438.6316	390.9677	282.8571	442.1622
##	[7081]	470.6422	439.8649	457.3333	494.1176	405.9718	287.6923	367.3171	457.3973
##	[7089]	354.6667	457.0732	439.8000	412.5743	426.0000	397.5000	349.1667	322.2222
##	[7097]	442.0513	391.0976	366.7416	290.5263	291.6279	364.8276	340.7547	465.4369
##	[7105]	255.0000	460.0000	466.7143	473.2683	439.3939	390.2609	422.6471	418.7500
##	[7113]	418.5222	325.7143	381.2658	504.6316	439.1837	315.7895	460.3413	442.6772
##	[7121]	317.7778	354.6774	388.8889	470.8696	418.7940	387.0000	352.8261	407.0064
##	[7129]	269.2683	378.1579	522.4309	480.2970	469.7561	397.5000	420.0000	418.4527
##	[7137]	277.8947	371.0870	356.8786	471.6084	287.6923	414.2857	365.1429	383.6538
##	[7145]	384.0719	397.4400	442.0513	417.3000	429.7143	382.9412	337.6596	371.1628
##	[7153]	366.0000	416.1290	396.9767	382.9730	438.2143	432.3034	362.8743	397.5949
##	[7161]	403.5398	435.4286	378.6667	363.1915	366.5000	424.4541	458.4906	292.8000
##	[7169]	418.2955	368.4507	401.3333	461.1801	412.7027	439.1837	420.7792	421.9355
##	[7177]	440.1460	298.8679	434.0426	467.4419	379.1379	258.1132	384.0000	328.9888
##	[7185]	444.6108	413.5849	455.4098	354.0845	418.8462	459.3103	459.4030	237.7778
##	[7193]	366.8122	432.7152	278.4000	433.4899	448.0000	366.0000	422.6866	407.5862
##	[7201]	448.8889	399.6429	431.8349	366.7416	369.5798	438.4000	419.5946	445.2414
##	[7209]	318.5455	435.4286	512.3596	298.8679	331.4563	408.4615	398.4146	411.8919
##	[7217]	450.2752	389.6341	372.4390	409.6154	405.5814	354.0845	413.5849	399.3893
##	[7225]	435.0920	430.1887	381.0191	324.3243	449.9071	341.4000	394.1379	443.8356
##	[7233]	449.4118	410.3226	472.5773	430.8621	358.5714	435.7664	403.1776	371.3089
##	[7241]	472.0859	435.8140	273.6585	336.3158	295.6522	432.9897	337.8771	489.1837
##	[7249]	286.2500	325.0000	295.2941	378.4211	466.8132	334.6667	436.2162	300.0000
##	[7257]	387.4576	310.3704	388.4615	426.3366	400.8511	342.9947	399.0826	362.5532

##	[7265]	369.0000	457.9646	351.8824	490.2353	410.1923	422.6087	476.7327	428.4112
##	[7273]	387.5556	393.6842	456.3380	282.6667	412.2973	407.3793	431.5385	343.5000
##	[7281]	388.9286	322.5000	411.8644	333.0612	150.9890	321.0000	374.0000	399.0106
##	[7289]	375.1724	346.5517	365.4545	314.2105	390.9804	406.0686	270.6383	370.9091
##	[7297]	382.4490	440.3306	428.0268	407.1429	340.0000	383.1683	439.1837	402.7778
##	[7305]	347.6087	406.9565	409.2857	375.2239	447.1470	429.2711	373.2632	415.8621
##	[7313]	399.4444	404.5714	429.8684	287.6923	341.5385	298.8679	316.8000	357.8698
##	[7321]	358.5714	428.0233	327.0677	315.7895	328.9888	445.8462	382.3256	313.5849
##	[7329]	269.2683	448.6880	414.1748	408.3158	434.3662	418.8571	202.8000	266.6667
##	[7337]	447.3837	346.2069	433.4078	392.9204	367.4483	351.5493	391.6738	475.5882
##	[7345]	479.4000	419.3407	400.0000	359.5000	386.4286	285.5844	399.4444	375.1724
##	[7353]	324.3243	369.7059	430.9859	443.4462	467.3494	338.1176	445.4167	360.0000
##	[7361]	475.9615	416.5161	390.7692	435.4967	266.6667	442.6772	378.4211	338.7805
##	[7369]	498.0583	367.3171	375.0993	461.5385	341.6842	400.8750	308.6747	418.6667
##	[7377]	422.6087	295.8621	456.6667	390.3614	467.7273	380.0000	451.3761	486.7005
##	[7385]	404.2553	355.8333	437.0704	480.2970	450.1408	401.0526	422.6866	410.8571
##	[7393]	393.5065	371.7791	321.1765	292.6829	367.7419	238.3333	448.9720	362.6667
##	[7401]	292.6829	460.2817	477.9503	384.0000	363.6364	438.2609	380.6324	389.2035
##	[7409]	360.8451	297.3913	320.5714	461.1801	350.6250	443.8662	480.5128	429.8684
##	[7417]	274.8387	416.0584	453.2710	433.9286	423.3333	353.6066	368.5714	306.6667
##	[7425]	368.6747	450.6338	291.8182	289.7143	448.6405	352.5000	407.5796	406.9811
##	[7433]	437.3626	435.4545	370.0000	341.2500	375.1724	381.5789	410.5085	404.6018
##	[7441]	378.2101	421.5000	480.0000	463.0986	463.4043	330.7692	432.3967	306.6667
##	[7449]	423.0457	452.0930	365.0943	427.4286	364.2254	362.5000	406.9091	406.5072
##	[7457]	369.5798	425.8647	446.7626	333.3333	428.9720	489.6610	425.9155	328.4615
##	[7465]	375.0000	300.0000	379.1379	435.6923	394.9763	422.1538	366.5000	410.8108
##	[7473]	390.4762	419.2208	438.4615	440.5904	371.4953	137.1429	421.5152	442.1918
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##	[7497]	422.6374	448.6405	373.1707	389.8089	439.7727	454.6154	392.8662	285.0000
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##	[7513]	356.1290	471.0968	460.3053	403.6364	361.5254	489.7462	375.1304	460.7784
##	[7521]	445.3125	430.9859	509.5238	427.2897	395.9341	315.7895	381.3861	375.1648
##	[7529]	396.2162	459.7122	420.5263	452.1362	277.8462	374.6512	451.6129	420.3947
##	[7537]	442.6772	368.1250	486.3830	378.8430	437.8723	401.7722	291.0638	458.4000
##	[7545]	427.0130	384.0553	361.6822	369.9174	400.0000	332.5000	384.4898	446.4179
##	[7553]	445.4819	409.7561	429.2711	393.6986	356.3636	439.7906	424.5349	443.1683
##	[7561]	412.6027	427.6000	463.0108	224.5161	389.2035	412.5743	401.0526	396.0000
##	[7569]	474.7059	250.8000	443.2979	385.9701	428.1905	449.0526	283.3333	280.5000
##	[7577]	381.0000	244.8980	415.7576	340.0000	436.5714	385.4348	376.1345	408.0000
##	[7585]	418.3099	348.7912	386.4000	438.0547	422.6087	403.7224	367.2000	333.0612
##	[7593]	452.3077	369.9174	320.0000	232.3636	443.3824	443.5714	460.4154	400.0000
##	[7601]	406.2857	433.0588	415.0685	454.8066	382.4348	380.2941	512.7273	343.0366
##	[7609]	479.1549	452.9348	393.5065	377.8512	421.6304	410.8861	440.4255	303.2432
##	[7617]	490.8000	269.5385	375.2113	320.0000	404.6322	429.1908	422.2642	325.7778
##	[7625]	406.3291	422.7793	432.3664	439.7143	346.2069	345.0000	416.7568	294.9153
##	[7633]	399.8182	381.0000	455.3254	325.7143	491.7219	413.0233	411.9685	396.7500
##	[7641]	445.8621	463.4043	411.7021	495.0785	484.0909	412.1813	486.5686	439.5467
##	[7649]	351.0345	416.1538	435.4286	346.9565	450.0000	359.3684	399.6429	424.3636
##	[7657]	331.9565	466.5306	452.6733	472.5246	456.4286	359.2941	393.4615	320.4255
##	[7665]	331.7647	366.7416	217.6271	448.6405	279.1304	236.8966	464.2623	356.5289
##	[7673]	432.3664	468.3495	378.1818	276.0000	306.1538	347.0270	354.0845	413.0233
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## [8121] 315.7895 393.1469 381.1321 395.3642 425.9155 435.3061 397.8344 378.1065

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##	[8129]	400.7143	368.4615	422.7068	323.2500	397.8344	432.8571	453.5172	277.6744
##	[8137]	415.9786	424.2424	383.6538	477.5207	454.4681	407.3913	433.4694	443.1683
##	[8145]	340.8000	469.7455	466.7128	375.1724	435.7576	420.6799	352.6667	303.2432
##	[8153]	291.2195	427.2897	430.4698	300.0000	350.8065	414.7317	336.5217	440.2878
##	[8161]	389.4737	476.9343	333.3333	352.8814	471.8447	486.8852	470.6422	437.8983
##	[8169]	311.1765	475.5627	390.0000	489.1837	424.0000	468.0769	409.7260	324.7059
##	[8177]	499.1186	406.9811	379.2857	359.1667	302.8571	392.6316	430.4000	372.0349
##	[8185]	398.3851	380.0000	475.2709	416.5217	431.3208	285.0000	379.3333	277.6744
##	[8193]	329.0323	369.4286	362.5210	337.0213	387.4576	387.0732	488.8696	369.7059
##	[8201]	286.5517	393.5526	280.4082	455.0147	273.1915	459.0533	272.7273	314.2105
##	[8209]	354.4444	373.8462	321.7582	403.4862	367.5862	170.9091	287.6923	383.6538
##	[8217]	381.5789	318.1395	432.3077	481.4516	314.1429	450.5660	398.7560	460.3597
##	[8225]	427.8947	349.9010	489.7351	354.1935	245.3333	390.3226	372.7119	426.9010
##	[8233]	387.3913	427.6558	312.6316	414.8045	423.0457	458.1818	418.3178	426.8354
##	[8241]	443.8835	447.0423	354.4186	444.3750	398.0488	303.2432	396.1446	358.2353
##	[8249]	341.4085	400.6015	369.4444	426.1017	432.3664	453.3835	442.0513	414.2857
##	[8257]	367.0588	420.5158	391.3761	453.3871	424.4262	417.6316	237.7778	331.7647
##	[8265]	305.7143	382.3881	375.8974	427.2897	362.8571	398.6087	418.8535	378.6667
##	[8273]	489.0909	319.2000	435.8182	314.2105	366.7416	442.5000	452.7439	448.9024
##	[8281]	370.9091	421.9737	451.6901	313.5000	376.7647	388.3784	318.3471	463.0189
##	[8289]	375.0000	476.3758	346.2992	298.6047	427.1053	351.8400	471.4286	419.5946
##	[8297]	419.4495	426.1333	435.4967	385.9355	435.8140	430.3597	370.9091	368.4507
##	[8305]	375.4054	282.8571	353.6066	378.1579	432.9897	453.6842	321.3861	440.4969
##	[8313]	285.7143	403.4356	461.4433	465.6522	295.2632	366.5000	420.7792	442.8571
##	[8321]	456.7347	453.1915	392.6471	434.1818	435.7282	396.1905	420.5505	439.2188
##	[8329]	431.7889	372.1277	378.4615	367.3171	447.3837	365.8667	422.4658	359.3684
##	[8337]	444.3750	411.3043	469.9367	349.0476	320.5714	355.5000	424.2291	443.2500
##	[8345]	410.8571	438.8235	391.5190	479.3258	346.9767	303.2432	368.7179	273.6000
##	[8353]	377.3154	397.6119	402.4528	472.9412	403.7288	250.8333	339.8438	420.1705
##	[8361]	355.3488	409.9522	271.9149	463.4146	288.5714	251.0000	297.3913	411.3573
##	[8369]	449.5238	417.4790	411.4013	440.6528	426.9010	462.2330	249.4118	422.2642
##	[8377]	361.1250	377.5221	387.9545	340.8000	504.6316	297.1429	461.5674	471.6176
##	[8385]	435.4967	345.3191	371.2500	387.0732	439.2188	439.7906	393.6585	403.6364
##	[8393]	439.1304	370.0000	416.8730	456.1129	285.3333	306.6667	416.4935	419.1176
##	[8401]	410.0000	454.0541	194.4828	487.7838	385.1351	418.3178	388.7273	298.5000
##	[8409]	354.1176	267.5000	387.6923	385.7895	368.8636	383.6653	489.7462	386.4286
##	[8417]	362.0339	429.6463	327.6923	430.2740	413.7423	280.4082	433.9073	416.2025
##	[8425]	384.0764	352.8261	305.8537	370.6329	462.0000	401.1765	460.4473	464.5509
##	[8433]	521.0870	440.3390	397.4026	444.6575	404.8101	452.6733	361.7391	316.3636
##	[8441]	449.6000	439.7315	315.4286	427.6596	430.4000	339.4286	335.7895	356.6292
##	[8449]	321.7582	453.1200	394.8148	401.4286	260.8163	375.2113	400.0000	352.9412
##	[8457]	462.1622	279.1304	440.7339	481.8090	410.3226	394.5455	403.1405	448.5864
##	[8465]	376.4029	477.4920	410.4348	399.3377	340.7547	335.7895	393.5065	455.7447
##	[8473]	458.4000	438.1481	391.1765	470.7692	447.4825	454.6154	380.2210	433.7838
##	[8481]	499.3750	384.2017	377.4419	381.3158	382.5641	448.5315	474.1463	460.3597
##	[8489]	388.9157	380.1342	439.2857	483.1579	381.2658	295.8140	369.4286	436.7647
##	[8497]	386.8966	441.0811	412.3636	418.4416	425.8647	354.4304	364.2254	356.1905
##	[8505]	409.1176	447.5776	295.2632	389.2035	419.0323	482.1429	409.9422	378.4615
##	[8513]	411.1111	432.7152	331.5385	449.8990	371.8033	355.4315	280.4082	285.0000
##	[8521]	493.3555	361.9355	465.4369	407.2131	437.1429	386.8966	356.6667	406.3473
##	[8529]	424.2581	362.8916	354.6667	405.1456	451.4685	427.6000	386.4567	482.7273
##	[8537]	420.0000	419.4495	341.6000	375.0000	481.8090	423.8824	283.0769	458.1429
##	[8545]	398.5185	340.2632	483.3503	402.9545	435.7664	394.1538	312.2727	354.1176
##	[8553]	410.9709	418.8571	324.6000	442.2295	375.8974	375.4054	462.3697	451.0465

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## [8561] 435.1145 387.0000 459.1753 378.6585 397.5652 438.7234 453.4021 363.1915
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## [8577] 451.3953 360.0000 474.9020 359.1667 419.5946 423.3708 419.4495 259.2453
## [8585] 467.2028 331.4019 418.2210 259.5652 360.5714 403.4356 338.1250 407.6923
## [8593] 348.7912 460.4154 283.0769 424.4444 354.3529 459.2647 316.8421 456.7742
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## [8609] 446.1905 481.8634 422.2642 287.6923 438.4000 423.3333 442.2222 412.1311
## [8617] 328.9655 375.9459 390.0000 470.0719 411.5385 526.8132 411.8919 396.0000
## [8625] 382.3881 451.6129 456.0410 355.3333 413.8462 386.1538 338.7654 348.5714
## [8633] 413.7600 332.7273 398.3607 350.9677 396.1983 375.3488 463.0189 436.9565
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## [8649] 376.1719 432.3077 316.3636 436.6667 431.6860 160.0000 385.9701 429.4631
## [8657] 409.6552 477.0149 385.0685 439.3421 446.6667 280.4082 366.0000 313.1707
## [8665] 384.0000 406.9231 463.5052 425.9155 362.7273 446.8966 265.0000 346.9565
## [8673] 397.8462 372.7119 391.7949 243.6735 305.8537 255.9184 416.3265 382.0000
## [8681] 324.7059 366.5000 382.7027 449.7600 442.4503 433.4078 398.9691 439.7906
## [8689] 409.6154 259.4595 436.7647 411.8919 480.0000 429.9408 333.3333 366.0000
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## [8705] 434.0625 397.5460 373.2468 431.7568 455.5215 323.8710 422.3762 380.9302
## [8713] 272.6087 339.1837 375.4054 325.7143 364.0385 396.7500 433.5211 457.2000
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## [8729] 459.4030 373.7143 404.4304 404.3478 435.3191 249.6482 413.8462 407.3913
## [8737] 399.3396 430.9091 188.0000 406.2069 427.9245 348.0000 470.4930 434.7458
## [8745] 456.5217 339.5745 364.2254 408.4768 450.0000 375.2239 327.2165 420.9091
## [8753] 391.0227 264.2308 346.2162 415.6364 304.0000 319.2000 419.5522 222.2222
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## [8769] 456.6667 413.4307 375.4601 392.5234 432.2222 402.0202 395.8333 449.5441
## [8777] 319.8529 438.4286 379.7647 419.4915 415.0154 402.6923 410.1923 420.1705
## [8785] 359.5000 372.6829 421.5152 421.5584 465.9459 413.8318 494.8553 385.0633
## [8793] 439.5224 427.3469 382.3881 255.0000 236.6667 441.7431 334.4444 449.7600
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## [8809] 414.2466 510.0000 410.8861 380.2941 330.0000 144.0000 417.6316 341.5385
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## [8881] 360.6667 442.2295 483.7134 324.3609 301.2000 395.7798 292.6829 304.2857
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## [8905] 279.1304 407.2222 397.4400 466.4234 370.3846 334.6392 441.4480 468.0992
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## [8929] 432.0000 360.0000 496.8462 454.1284 390.4167 375.7895 400.1105 329.0323
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## [8945] 323.8776 454.2056 386.0377 393.6986 292.6829 393.7725 442.2414 419.5918
## [8953] 322.5000 456.9231 476.9343 334.6667 256.7442 266.2500 328.3636 313.3333
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## [8969] 345.0000 417.1765 417.1034 463.6364 414.8077 457.9121 148.1481 413.6170
## [8977] 359.1667 419.5522 276.7742 459.7523 376.4151 378.1250 420.0000 412.2449
## [8985] 465.0000 384.3529 453.8298 327.6000 452.3615 418.4615 454.3316 320.5970

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##	[8993]	310.7692	394.1379	482.7586	367.2727	358.9286	328.9888	423.3962	276.0000
##	[9001]	340.9302	249.3333	509.8973	465.9459	371.0870	483.0508	399.4444	349.0476
##	[9009]	241.1321	417.3248	405.9218	338.4270	328.3019	415.6364	392.0000	418.9655
##	[9017]	452.6471	393.0612	424.3299	407.3913	421.9355	390.5660	434.7945	465.7692
##	[9025]	428.5714	359.4059	362.5000	369.4382	314.1176	272.7273	364.2254	417.0968
##	[9033]	429.5876	401.7722	335.1220	416.2500	469.2073	378.2609	484.2424	322.8169
##	[9041]	420.3947	285.0000	431.7703	428.6188	402.5806	358.3562	388.3065	420.0000
##	[9049]	336.3636	408.0000	225.3061	381.0000	427.2857	444.4138	481.3483	263.0769
##	[9057]	392.6316	377.8571	459.8883	501.8557	329.2308	434.7321	435.8140	359.0400
##	[9065]	425.9091	187.5000	445.4167	364.1270	441.4480	397.5949	378.8889	245.7692
##	[9073]	401.7073	390.7692	414.1748	314.0426	428.4112	410.5785	439.5224	240.0000
##	[9081]	295.8140	392.4138	444.8338	406.9231	387.4576	397.5652	436.7857	401.9689
##	[9089]	469.7143	413.1646	420.5941	359.1429	315.7895	393.6986	431.7507	305.7143
##	[9097]	387.0732	364.8780	375.0000	421.8911	327.6923	442.1918	455.5215	459.0533
##	[9105]	454.6479	408.2143	388.8136	347.7551	456.7742	414.2466	337.6596	291.9745
##	[9113]	422.9412	329.6296	328.4615	440.2041	356.1538	438.2609	396.1446	491.7219
##	[9121]	434.9239	465.0000	437.9221	295.2632	312.4390	399.4444	473.5227	385.0685
##	[9129]	368.7179	311.3793	373.4118	285.7143	364.3478	458.4000	276.0000	330.0000
##	[9137]	458.3333	462.6168	464.2991	398.6087	436.3265	421.9737	414.8077	420.0000
##	[9145]	198.6207	460.0000	429.8061	273.6585	424.1509	463.8462	397.5652	458.9809
##	[9153]	422.6866	309.9130	444.8338	276.0000	384.9558	440.6528	395.3571	417.4790
##	[9161]	436.5049	385.6126	377.9310	361.0169	260.8163	434.5714	438.3051	382.6347
##	[9169]	400.9756	349.0076	432.7928	410.2041	441.3103	431.3208	375.0000	439.3939
##	[9177]	441.9643	354.6667	400.0000	414.1379	398.8732	420.4225	287.6923	429.2711
##	[9185]	386.1224	417.9310	429.0909	418.8235	399.8182	348.7912	397.8947	406.5421
##	[9193]	354.7500	407.3913	496.7876	368.6441	453.5294	522.4309	457.9121	423.1788
##	[9201]	407.8481	305.3333	379.4118	404.6018	414.8077	364.0000	344.1176	334.2857
##	[9209]	365.7303	448.8189	496.7876	309.6774	433.2886	445.9843	357.5610	374.7541
##	[9217]	314.8148	365.9504	406.4286	456.3529	431.2690	444.7273	426.3366	392.1818
##	[9225]	341.5385	476.4706	406.5421	337.8947	467.4286	394.5455	453.3333	389.8204
##	[9233]	443.9175	321.7391	400.6780	353.5484	432.4615	443.4783	273.1915	382.4348
##	[9241]	481.8090	418.4416	431.7568	349.5954	483.5294	461.1801	359.5041	245.3333
##	[9249]	439.8649	341.6000	453.7500	398.0769	459.7183	389.0323	315.5556	477.2136
##	[9257]	453.5172	463.1642	394.3662	433.6977	463.4043	477.4154	382.5641	377.0370
##	[9265]	414.9057	438.2143	439.0698	292.6829	385.8621	451.1037	452.0930	259.2453
##	[9273]	291.2195	463.4328	428.7640	337.8947	418.8571	441.3103	285.3333	466.4062
##	[9281]	457.2000	454.8066	296.0656	401.5610	324.7059	418.6957	357.5610	276.0000
##	[9289]	369.1525	424.7368	477.6923	398.5153	402.8796	411.8919	340.0000	385.3448
##	[9297]	342.2727	433.8305	354.7826	411.2360	450.9474	430.5587	451.6364	432.8571
##	[9305]	348.3673	318.3784	354.6774	385.7895	454.1284	443.2836	490.0990	440.3636
##	[9313]	471.6176	314.2105	452.2388	455.4098	330.0000	305.7143	418.9655	341.1765
##	[9321]	377.4419	439.6154	429.5876	343.5789	347.0455	426.9903	445.7669	451.3678
##	[9329]	389.2035	416.8730	445.2414	428.5714	286.5517	392.6471	419.4915	431.3208
##	[9337]	435.4967	389.4737	381.8824	304.2857	465.9494	380.9302	408.5350	443.8835
##	[9345]	388.4211	427.1053	442.6772	533.0387	278.4000	410.3650	351.6923	467.4286
##	[9353]	434.6218	367.3171	338.9189	351.9588	432.7928	400.6731	393.7725	413.8318
##	[9361]	365.7600	398.3226	400.0000	391.2727	423.3333	292.5000	384.2017	351.3043
##	[9369]	391.1688	283.0769	378.1250	477.4920	344.8421	390.3226	441.4599	392.9204
##	[9377]	407.7670	372.5490	363.7975	362.8916	391.5207	450.2190	420.4110	494.2268
##	[9385]	424.6707	324.2553	476.6078	372.9070	382.6347	458.5714	291.2903	431.6814
##	[9393]	399.8182	354.6774	310.2439	318.0000	341.6794	421.8750	392.1818	393.6585
##	[9401]	435.8571	369.4286	473.5385	348.5714	366.9939	262.0408	280.5000	444.6108
##	[9409]	453.5172	292.3404	459.6774	391.1765	330.0000	494.7692	458.4906	330.0000
##	[9417]	419.1176	319.6154	428.0000	282.8571	467.7812	305.8537	435.2000	464.5914

##	[9425]	427.3846	450.4762	413.7097	459.2308	366.0000	403.2468	423.9344	350.4000
##	[9433]	371.1628	340.0000	259.2453	434.0000	388.1928	463.0435	378.1065	462.0217
##	[9441]	494.2268	279.0698	418.4615	435.6287	455.0769	424.4595	328.3636	422.5000
##	[9449]	419.0000	424.3709	442.3448	410.4762	463.1642	426.3959	413.1488	407.4820
##	[9457]	334.2857	422.5000	364.8276	458.4507	445.5319	420.6667	387.0732	364.7191
##	[9465]	408.1529	351.8400	347.3913	431.0000	285.7143	448.6880	418.6900	463.0986
##	[9473]	400.5195	310.2439	399.9375	445.9459	276.0000	313.1707	309.1429	499.8964
##	[9481]	425.4902	343.9655	446.8085	375.4054	331.9565	390.4478	417.9512	422.9412
##	[9489]	473.5227	285.0000	270.6383	443.6842	415.5556	359.1667	331.6667	378.4116
##	[9497]	258.1132	324.3243	452.3810	321.5385	488.8696	386.0870	348.6486	374.1176
##	[9505]	319.2000	391.1688	332.5000	359.3258	360.9091	430.4348	441.6495	377.8571
##	[9513]	488.4733	410.3774	370.9756	316.8421	390.3614	323.1683	430.4000	450.2752
##	[9521]	447.3837	224.2105	437.1429	475.8382	440.2073	371.7073	349.0476	373.4118
##	[9529]	394.1379	426.7550	344.8485	427.2857	327.3913	402.7500	401.8277	279.1837
##	[9537]	375.8974	418.8350	349.1667	410.4762	349.6875	276.2791	468.1081	306.2264
##	[9545]	403.5398	447.9263	401.7722	360.7792	391.3761	387.0732	355.4717	414.7368
##	[9553]	419.4495	260.9302	425.1827	423.3962	442.6772	364.3478	366.5000	367.3171
##	[9561]	382.7848	332.6087	445.1485	449.1509	385.4348	396.9863	349.6063	433.3758
##	[9569]	470.9709	396.1062	311.3793	449.6000	307.5676	345.1200	344.0323	341.6000
##	[9577]	242.2642	455.5215	339.4737	356.0870	397.0000	408.0000	383.3514	376.5000
##	[9585]	381.0000	416.3265	354.4186	420.5172	489.9482	407.2222	382.4096	413.1646
##	[9593]	323.8710	477.6238	478.6765	407.8652	272.6087	417.3248	386.7692	350.9677
##	[9601]	367.0968	418.9802	449.4118	435.9420	412.2078	370.3846	324.3243	424.0541
##	[9609]	437.9221	385.0435	395.2941	429.0909	410.3371	535.6425	428.9189	375.2239
##	[9617]	366.8571	392.6316	397.6119	418.8000	379.5349	423.0769	355.2000	359.1429
##	[9625]	440.8383	358.7288	348.5870	445.4167	328.4211	333.3333	280.5000	400.3846
##	[9633]	364.7191	318.1250	397.5652	272.6087	399.8182	313.1937	425.5014	412.6027
##	[9641]	428.5714	497.3196	319.2000	397.1134	420.0000	458.8000	321.0000	435.8140
##	[9649]	417.9104	460.4430	330.5660	358.6667	347.7551	376.0563	424.3299	352.6667
##	[9657]	486.6160	394.5652	330.0000	353.4146	255.6000	418.8235	429.8061	447.9070
##	[9665]	371.1628	329.1176	285.3333	368.6441	274.2857	480.9524	411.9463	398.8732
##	[9673]	397.5652	335.7252	279.1304	304.2857	448.8889	255.6000	363.4286	444.3243
##	[9681]	418.9655	411.7431	400.3125	384.8889	292.6829	316.8932	400.0000	501.9895
##	[9689]	320.5714	332.7273	426.4706	461.5094	454.4898	473.0935	453.3333	452.7439
##	[9697]	459.7122	393.7674	413.1646	438.5586	460.8197	406.9811	443.2836	328.3636
##	[9705]	374.7541	285.0000	492.4138	369.7059	350.7317	427.2897	395.4545	376.7647
##	[9713]	443.1683	425.5491	295.2632	496.0465	456.7742	386.7692	464.6281	410.5714
##	[9721]	487.9245	376.4029	350.9589	431.5789	461.1585	400.0000	319.5349	432.1875
##	[9729]	456.0000	434.2857	393.3835	408.8818	266.2500	403.2468	260.9302	334.1053
##	[9737]	291.2903	411.0280	362.5532	445.4167	396.5217	348.0000	392.6316	349.0476
##	[9745]	286.6667	392.4138	456.5714	441.6495	363.4286	456.0000	307.6923	403.4862
##	[9753]	276.6038	373.1792	433.2632	435.7576	458.3333	378.1250	469.0385	417.5851
##	[9761]	439.7938	389.2174	340.4651	400.0000	408.0000	446.4179	441.1364	418.8350
##	[9769]	399.3893	419.3407	410.0719	251.7647	410.0000	495.0785	446.9565	471.4286
##	[9777]	391.8182	378.8430	397.5652	486.2903	372.7119	414.4444	356.0870	365.4545
##	[9785]	432.4561	422.2642	302.1818	438.3051	416.4935	426.7826	420.0000	360.6818
##	[9793]	425.5014	286.3158	430.3846	353.6066	412.9730	387.0732	413.4307	425.5014
##	[9801]	384.2152	267.1429	396.9231	282.6667	260.8696	393.5065	346.2857	484.8000
##	[9809]	455.0943	426.1682	259.2453	457.4713	429.1908	450.8411	354.3529	464.2991
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##	[19801]	426.6000	439.3878	438.2474	273.6585	475.9664	442.5000	324.3038	422.0690
##	[19809]	477.4920	461.1801	403.1429	396.2162	456.3529	435.4455	433.9286	348.3673
##	[19817]	359.3258	357.5839	364.8276	314.0426	392.6087	310.5155	411.2102	380.2941
##	[19825]	311.0204	416.4935	404.4604	408.4768	397.6812	266.6667	402.5455	413.1646
##	[19833]	334.5455	465.5749	452.7439	318.0000	304.2857	365.7600	273.1915	353.6170
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##	[19849]	338.9189	298.3784	260.9302	397.6812	380.7407	428.9189	247.5000	423.0457
##	[19857]	470.6341	231.8644	421.9608	311.6667	382.7586	280.4082	316.8000	425.3425
##	[19865]	354.4186	386.9565	422.9412	443.3824	424.4541	401.1801	455.5215	328.3636
##	[19873]	388.6486	449.4118	403.2787	417.8680	447.2892	437.9381	378.1818	360.0000
##	[19881]	421.6304	399.0476	279.1304	345.1200	341.2903	298.6047	304.0000	298.3784
##	[19889]	464.9547	405.4286	350.2326	322.9091	404.6218	357.8824	419.3514	398.0488
##	[19897]	332.7273	384.0000	373.0693	414.9057	436.5049	360.9091	469.6689	364.4318
##	[19905]	344.8000	340.0000	366.0000	400.7547	359.5000	262.8571	395.8333	457.1963
##	[19913]	450.0000	467.2669	384.0000	414.4444	465.8128	349.5954	397.8462	321.0000
##	[19921]	460.6635	454.3316	413.5135	415.2381	497.4194	374.5342	371.0345	416.0684
##	[19929]	370.4000	309.8182	448.9552	421.5142	438.7234	415.2381	285.3333	461.4388
##	[19937]	463.1642	444.5845	408.0000	436.9634	472.0000	433.4783	386.1538	450.1408
##	[19945]	368.7097	355.8140	442.1053	341.9608	380.9091	303.1579	305.7143	271.3636
##	[19953]	438.7500	445.1485	455.2448	411.7241	448.6405	453.5294	286.2500	472.9299
##	[19961]	379.4872	464.5509	286.0000	425.4890	415.5556	400.9756	400.7407	425.7851
##	[19969]	355.8333	309.0909	406.9811	427.3469	359.3684	372.7119	444.4898	342.2727
##	[19977]	428.7500	298.6047	350.7317	342.2727	415.6364	466.4234	373.0000	483.7134
##	[19985]	413.3047	282.3529	435.6923	412.6744	450.4865	372.6316	392.9268	412.5466
##	[19993]	287.6923	423.3103	429.8061	456.4664	334.5985	444.6108	414.6269	298.5000
##	[20001]	396.9767	357.5610	440.6897	445.2439	378.0952	439.5224	495.0000	388.5714
##	[20009]	301.0000	342.8571	326.7153	355.9184	418.2353	396.7742	287.6923	386.1628
##	[20017]	392.0000	432.9446	447.5776	435.4286	133.9535	380.3774	324.0000	346.9565
##	[20025]	370.9091	439.8649	443.1646	417.8680	358.4874	412.9412	436.7647	444.7423
##	[20033]	402.0202	255.9184	457.2671	356.2500	432.3664	442.6772	436.7918	353.6585
##	[20041]	426.1682	169.4118	377.8512	306.1538	497.4915	405.2980	330.9890	482.6432
##	[20049]	434.1176	423.3708	451.6901	427.9570	394.1379	290.5263	428.7500	388.3929
##	[20057]	422.1106	273.1579	393.6145	432.8000	465.9459	387.4576	334.7059	382.4348
##	[20065]	406.9231	445.1485	406.9231	363.4091	421.8750	478.6592	431.3208	340.9615
##	[20073]	398.0769	444.7826	456.4286	421.7518	487.6119	371.0345	401.7021	434.6875
##	[20081]	456.3981	421.5789	440.4255	346.8750	386.0870	331.8462	392.6667	406.7176
##	[20089]	420.0000	424.2581	320.5714	301.0000	354.3529	240.0000	424.3299	318.7500
##	[20097]	435.4455	496.8421	454.1284	330.6207	416.8831	430.4000	438.0984	298.7755
##	[20105]	436.5049	420.1869	433.4783	452.2388	479.1892	404.6322	278.6667	476.6790
##	[20113]	362.5000	458.5714	401.1765	392.1053	325.3846	381.3158	366.4935	422.6471
##	[20121]	421.5484	418.8350	492.5714	332.7273	439.6154	425.2500	420.4878	458.3333
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##	[20137]	377.1041	411.5385	478.6592	424.2857	432.9446	392.1818	380.0000	384.0000
##	[20145]	408.2143	390.4167	446.8531	322.5000	395.9259	161.1429	426.7606	394.2857
##	[20153]	320.4255	346.3636	381.2658	432.0000	433.1034	305.7143	427.2289	368.4615
##	[20161]	262.8571	318.0000	406.8493	471.3761	418.8571	369.4444	475.1111	342.7778
##	[20169]	395.6897	428.8591	347.6087	384.4898	499.4366	379.5349	423.7748	380.9091
##	[20177]	379.5266	393.2530	325.7143	422.6866	382.3881	418.6957	417.4194	463.5542
##	[20185]	290.5263	198.6207	369.3642	281.6667	384.2017	453.1200	337.8947	442.8374
##	[20193]	442.1053	393.7725	313.1707	365.4545	304.2857	381.0000	245.3333	352.5620
##	[20201]	498.9091	365.5462	464.6281	475.0000	408.4615	424.6154	443.2836	301.0000
##	[20209]	480.3715	447.2093	361.4815	443.4940	359.2941	450.0000	482.4000	387.0000
##	[20217]	394.8148	169.4118	282.6667	315.4286	335.2000	419.4393	398.0769	408.6486

##	[20225]	414.8077	390.4000	443.3143	406.1842	389.2035	378.0952	366.9231	418.0583
##	[20233]	411.0280	432.3664	454.2056	417.6471	439.8190	396.2264	428.3333	369.4286
##	[20241]	503.3898	298.6957	458.6916	341.2903	340.8621	440.2326	431.2166	331.1688
##	[20249]	320.5714	255.3191	378.1818	355.1020	444.8824	385.2632	398.5185	443.2941
##	[20257]	421.5484	368.1250	337.1053	410.6422	403.2787	319.6154	331.4563	213.0000
##	[20265]	409.9422	313.8462	336.6667	380.3571	269.2683	391.8182	443.9203	474.1463
##	[20273]	456.9231	444.6108	292.3404	450.0000	438.6316	468.0000	430.4698	377.8571
##	[20281]	390.9554	310.5882	466.4234	461.5674	328.8889	367.2727	441.8433	283.0769
##	[20289]	463.5052	417.4790	411.1538	507.3016	364.3299	429.7183	437.8723	454.4444
##	[20297]	466.5306	427.4286	362.8571	448.0292	388.1818	436.4189	324.4068	376.5000
##	[20305]	494.2268	342.2727	372.7660	405.8824	479.0323	280.5000	321.5385	401.2500
##	[20313]	279.0698	304.2857	403.4862	284.2857	321.0000	457.1831	351.9685	232.3636
##	[20321]	379.1379	418.8571	406.7176	385.7895	439.2188	420.0000	438.4615	477.4920
##	[20329]	336.6667	441.9643	409.7561	465.9494	366.5000	388.6486	272.7273	279.0698
##	[20337]	447.1233	469.9367	395.0000	423.1034	339.6850	400.0000	408.6076	481.7647
##	[20345]	451.1037	489.3290	436.3351	273.6585	393.1132	408.2022	458.9905	436.9565
##	[20353]	375.1304	407.1186	447.1233	413.6490	420.0000	376.4029	286.2500	420.4918
##	[20361]	468.8421	453.0462	403.1776	393.3333	410.7383	384.2017	477.6238	325.3846
##	[20369]	400.0000	430.1818	321.4737	378.0952	404.3750	427.6000	260.8696	276.5217
##	[20377]	287.6923	471.7391	478.4444	424.2581	436.4189	342.2727	371.8966	443.5777
##	[20385]	423.0457	326.9231	330.0000	401.9337	406.3291	396.5217	396.9767	395.7692
##	[20393]	467.1756	439.3151	486.8852	437.7273	369.4286	326.9231	381.3514	419.5522
##	[20401]	387.6923	360.4918	484.9231	430.0885	420.5941	388.3929	419.4393	332.7273
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##	[20417]	433.0909	439.3007	260.8163	432.1429	427.6596	395.7798	350.3817	334.5455
##	[20425]	402.4528	425.1327	446.6667	391.8519	423.8961	447.2727	463.7594	460.3597
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##	[20465]	357.3913	464.0884	393.2530	410.4762	365.4545	458.4906	431.5789	432.6316
##	[20473]	280.5000	439.0909	392.4138	375.7714	354.4186	418.9655	373.4118	367.4118
##	[20481]	376.0563	333.6585	441.7742	440.6897	364.7191	292.3404	460.9091	475.8140
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##	[20505]	291.0638	386.6292	476.2286	445.6684	385.8621	397.8035	475.9664	345.7627
##	[20513]	384.5614	432.0000	422.1106	359.0400	305.7143	356.1290	321.7582	356.0000
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##	[20537]	255.0000	389.2174	440.2073	436.3265	371.7949	448.2353	327.6923	436.2385
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##	[20553]	373.1707	348.0000	347.0455	443.2979	227.6712	460.9615	349.4595	441.9643
##	[20561]	323.8776	428.5161	426.9027	445.9843	439.8649	450.0000	413.3824	371.1628
##	[20569]	428.2759	313.5000	410.4459	292.3404	470.4153	467.3438	321.0000	401.7722
##	[20577]	344.5989	426.2400	387.7551	295.2632	431.2500	399.6429	485.2326	338.1250
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##	[20593]	332.0690	311.7073	423.2000	367.3171	421.7391	432.5000	356.4706	328.2090
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##	[20609]	388.3929	417.6316	375.1304	515.4839	358.9286	337.2973	375.1579	278.6667
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##	[20649]	287.6923	291.1364	342.6087	382.4096	326.8182	388.3929	426.6000	481.8750

##	[20657]	241.1321	422.1429	439.2632	352.6667	420.0000	454.4444	499.3750	391.8919
##	[20665]	424.0000	360.0000	426.3158	408.7500	389.2424	422.8481	434.0964	202.0588
##	[20673]	387.0000	455.5215	473.5385	298.3784	465.0000	382.4348	290.0000	329.3023
##	[20681]	399.3893	285.7143	447.1385	455.6757	377.8512	442.0513	380.8929	416.2025
##	[20689]	356.4706	338.7805	366.5060	411.4286	467.4286	306.1017	334.2857	456.9231
##	[20697]	342.2727	494.7692	440.3636	410.4348	443.4940	311.3793	405.6000	462.6168
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##	[20721]	324.3243	478.2439	411.0280	377.6000	451.3196	501.6892	475.0000	390.2609
##	[20729]	368.8636	335.4545	386.4286	371.8519	377.4803	435.4839	446.9565	269.2683
##	[20737]	435.5556	456.8182	345.7143	388.3929	371.3043	296.8421	285.3333	398.5185
##	[20745]	375.0000	346.9565	249.3333	402.6316	384.2017	355.0000	398.5185	425.9091
##	[20753]	379.8837	384.1897	485.2941	371.8966	285.0000	467.7465	401.7722	289.0608
##	[20761]	400.9938	236.6667	432.2535	306.6667	366.5455	297.2093	285.9459	448.2353
##	[20769]	452.1127	355.2381	396.7500	471.4286	406.9091	457.0732	334.2857	335.1220
##	[20777]	501.9895	368.4507	365.7600	480.3030	306.1538	446.1818	380.9091	501.9895
##	[20785]	469.9367	433.2886	402.7778	421.5385	360.7143	452.6733	488.4868	515.4839
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##	[20817]	495.3125	497.9767	429.9552	463.6364	377.4194	507.0588	352.6316	399.3893
##	[20825]	387.2727	486.9314	418.9655	448.5315	456.6766	417.9104	345.7803	389.2035
##	[20833]	437.2159	443.8835	375.4054	351.8400	269.2683	384.0553	480.0000	417.0968
##	[20841]	441.9310	403.8053	295.8140	481.3953	379.5349	443.3333	472.9299	327.6923
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##	[20857]	403.4862	444.7977	309.7297	267.1429	388.3929	381.0000	470.0719	431.3208
##	[20865]	435.8309	443.2979	311.7073	378.1579	413.9597	449.2405	311.6667	429.7872
##	[20873]	485.8909	442.5000	406.9811	298.5714	393.3333	446.4179	280.5000	453.5294
##	[20881]	186.0870	439.8529	448.8889	454.4444	400.9091	409.6953	311.6667	366.8571
##	[20889]	358.5714	431.4970	432.5000	371.8966	260.8163	373.2468	382.3881	435.7282
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##	[20913]	460.9615	486.7005	419.4915	354.6774	443.4940	280.5000	434.7945	382.5641
##	[20921]	422.6866	458.6250	320.8696	423.3333	451.0465	385.0435	375.0000	267.1429
##	[20929]	368.7611	391.4851	450.0000	295.2632	383.5443	324.7059	364.2254	372.7119
##	[20937]	445.8716	424.4444	484.2424	338.4270	483.7134	407.0064	259.2453	369.4286
##	[20945]	404.7458	467.7273	412.0253	369.0698	466.5815	385.7895	391.2676	435.8140
##	[20953]	461.5674	404.5631	452.0930	278.4211	417.6316	312.2727	483.0508	471.9231
##	[20961]	303.2432	448.4393	424.6479	398.7234	404.0000	376.5000	400.6711	390.4478
##	[20969]	224.4000	474.4409	349.4595	460.1538	406.5421	433.1034	482.4000	489.1837
##	[20977]	431.3208	440.7692	421.6783	401.0526	256.8000	381.7500	445.4795	445.9843
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##	[20993]	449.5238	440.2041	425.3425	413.7931	420.3947	369.3333	510.0000	401.0959
##	[21001]	437.2159	436.2162	439.7143	387.5556	473.4405	364.7191	469.5238	338.5714
##	[21009]	375.0000	285.0000	417.1674	353.4000	408.1529	297.1622	444.7977	368.7179
##	[21017]	298.8679	257.7778	399.3301	450.2609	405.0000	402.4528	379.1379	385.8333
##	[21025]	410.8861	398.7047	386.0870	356.5714	286.2500	391.0843	416.0265	375.0993
##	[21033]	431.5736	410.2210	388.4615	297.9070	345.3061	388.3784	441.9310	376.2500
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##	[21049]	375.0000	409.4340	454.1284	465.0847	401.4085	399.6429	424.2424	368.7097
##	[21057]	303.2432	461.4706	425.4545	457.5472	445.0485	267.6923	382.5641	329.6970
##	[21065]	447.5342	383.4615	442.2295	420.0000	388.4615	465.1034	459.4030	447.5380
##	[21073]	482.4490	474.6535	279.0698	493.2692	460.1250	448.0374	428.5714	345.2308
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##	[22849]	309.1429	431.2166	405.2830	437.2159	440.6528	363.4711	404.1667	361.9355
##	[22857]	324.3038	346.2069	325.7143	403.6875	456.6176	376.4029	425.4902	365.9504
##	[22865]	439.2632	316.2963	417.9104	452.6174	332.7273	315.7895	447.6000	447.1385
##	[22873]	399.6429	414.9057	493.3555	418.8462	399.8182	391.7647	458.3333	432.3077
##	[22881]	327.1605	280.5000	436.7647	430.6329	458.5714	304.0000	367.7922	405.0000
##	[22889]	424.4444	435.7576	451.8634	354.4186	462.0217	202.3729	427.9539	345.5357
##	[22897]	421.7143	340.0000	462.4719	440.9524	386.0870	342.2727	349.0076	369.7006
##	[22905]	401.4765	283.0769	436.1538	354.0845	355.3488	404.5714	280.5000	378.4211
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##	[22929]	359.0551	387.2727	256.8000	362.6667	431.7568	445.8716	439.7260	419.5946
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##	[22953]	390.4762	435.3191	463.1884	501.9895	444.2424	416.0584	413.8065	395.9259
##	[22961]	241.1321	428.2895	416.9492	472.6606	408.5350	459.2453	330.0000	433.0588
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##	[22977]	304.0000	403.1776	457.1831	399.7500	386.1818	420.5505	298.8679	439.6460
##	[22985]	453.1818	449.7600	319.5000	425.9091	451.3678	363.1915	472.9299	375.8974
##	[22993]	307.7778	384.5614	425.5014	373.0189	437.8378	334.5455	465.5172	449.5853
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##	[23009]	441.7021	379.1304	300.0000	474.9020	410.6422	392.1818	372.2727	470.9804
##	[23017]	382.7586	404.7911	304.6154	332.7273	460.9091	287.6923	445.9843	380.5970
##	[23025]	390.4167	469.9367	255.3191	448.3333	429.0909	425.3731	436.5049	351.9588
##	[23033]	400.8589	374.0741	388.6486	460.1250	384.1935	414.6269	379.2366	397.8761
##	[23041]	400.6731	321.7582	470.8475	324.7059	394.5652	297.3913	236.6667	456.0000
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##	[25857]	397.5652	416.1538	451.1037	302.3762	399.3893	432.6316	362.9508	363.4711
##	[25865]	432.4615	391.5207	352.1495	430.4000	466.3830	331.3433	437.0704	398.6087
##	[25873]	435.4286	332.0690	301.8557	354.3529	381.7241	377.8571	338.9189	466.4234
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##	[25889]	357.5610	462.6168	401.0526	430.4698	368.7179	354.6667	482.4000	411.4013
##	[25897]	518.7097	323.8710	417.8680	358.5938	329.2308	418.8350	302.1818	388.9831
##	[25905]	505.1020	295.8140	379.6875	441.8182	428.9362	276.5217	436.6387	467.4419
##	[25913]	366.4615	398.4828	418.2353	398.6087	424.4541	386.1538	324.3243	370.9091
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##	[25953]	329.3182	429.9107	334.5455	434.0000	487.0588	403.1776	403.4254	477.3034
##	[25961]	338.9313	342.5373	388.9157	363.3333	374.7826	348.0000	426.7606	273.6585
##	[25969]	457.6991	377.9310	495.2284	368.6441	454.6667	400.6452	451.7822	396.7500
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##	[25993]	372.2727	413.1646	349.4595	416.4444	428.4112	433.2886	396.1062	445.8621
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##	[26033]	432.3077	320.5714	388.5714	477.2727	410.0000	450.0000	411.1111	468.0435
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##	[26049]	435.3061	356.5803	421.5385	330.0000	369.7059	452.6437	442.5000	375.1724
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##	[26081]	371.7073	229.6154	446.1905	371.8519	465.4369	302.8571	480.3947	432.2006
##	[26089]	396.8675	386.4286	418.6667	393.3835	419.5918	298.3784	511.0769	426.7241
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##	[26217]	449.8361	325.1429	457.6991	327.6522	337.1053	338.4000	256.7442	376.8000
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##	[28025]	442.2414	384.0000	346.2162	360.0000	434.6218	443.3143	403.3333	398.5075
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##	[28041]	292.0755	418.8535	457.6415	477.0149	422.4419	409.7872	340.7547	277.8947
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##	[28057]	381.0000	377.2340	370.9091	418.8571	435.7466	245.1429	463.4084	413.0769
##	[28065]	459.0909	377.6000	312.3529	453.1200	430.4348	431.8182	430.2740	461.5166
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##	[28089]	326.4000	438.4348	460.8197	444.8338	393.7725	356.1538	348.3673	411.7647
##	[28097]	291.6279	282.1875	367.0588	438.1395	431.0000	430.6931	324.7059	392.1818
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##	[28113]	456.8182	366.9421	435.8744	464.9547	471.4286	343.2558	430.4348	388.8000
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##	[29729]	292.5000	306.1538	384.0000	454.6479	320.5714	404.5714	354.8148	403.5000
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##	[29745]	461.5385	367.9518	270.6383	380.9865	413.6490	369.4118	471.0744	413.6683
##	[29753]	431.6860	382.1053	358.5714	347.2340	298.6047	408.2143	466.7143	287.6923
##	[29761]	480.0000	372.7119	424.2581	387.0732	366.8852	313.3333	277.8261	292.8000
##	[29769]	476.4407	360.6818	427.2897	382.6490	413.5849	363.3149	297.3913	475.9732
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##	[29785]	448.3333	343.2558	402.7907	490.3226	376.7647	358.3333	442.0513	411.8919
##	[29793]	421.6783	441.0687	408.0000	416.7097	320.8696	442.1918	334.1436	417.5625
##	[29801]	383.3094	396.7500	391.0843	415.5195	414.6269	435.4455	422.7793	393.7674
##	[29809]	428.0000	416.5161	427.2857	481.7881	399.3893	383.1933	269.2683	381.2658
##	[29817]	397.7236	427.0588	397.8462	463.8318	408.7273	409.7872	233.4545	286.6667
##	[29825]	425.1381	418.7500	435.6213	461.0072	411.0280	423.2000	458.1429	381.7699
##	[29833]	362.3478	418.1197	400.9756	426.2400	395.9259	475.9615	414.8077	409.2857
##	[29841]	441.4865	319.2593	458.7097	344.3077	426.7550	391.0976	462.8571	429.8039
##	[29849]	281.6949	405.0000	388.3019	408.0000	237.7778	394.1379	388.3929	393.5526
##	[29857]	395.9155	453.8028	391.8919	459.1753	455.5215	395.5814	321.1765	356.0000
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##	[29873]	412.1311	388.3636	422.0930	416.2025	385.2101	436.6154	491.7219	384.3564
##	[29881]	462.6804	358.6813	429.4737	351.6923	378.6076	414.9351	320.5714	345.3191
##	[29889]	267.5000	469.7561	377.1041	386.3889	352.9412	428.2353	471.6176	410.7383
##	[29897]	398.0488	354.2466	396.0784	335.6044	424.1584	430.5263	438.4615	435.6923
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##	[29913]	407.2222	407.4251	406.9091	441.3423	306.6667	438.2877	352.7711	397.6119
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##	[29929]	403.1776	464.7826	404.1060	465.9494	313.8462	411.8919	431.8386	416.2963
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##	[30473]	420.6522	476.4407	328.4615	413.0769	390.4478	328.2090	403.1776	393.2530
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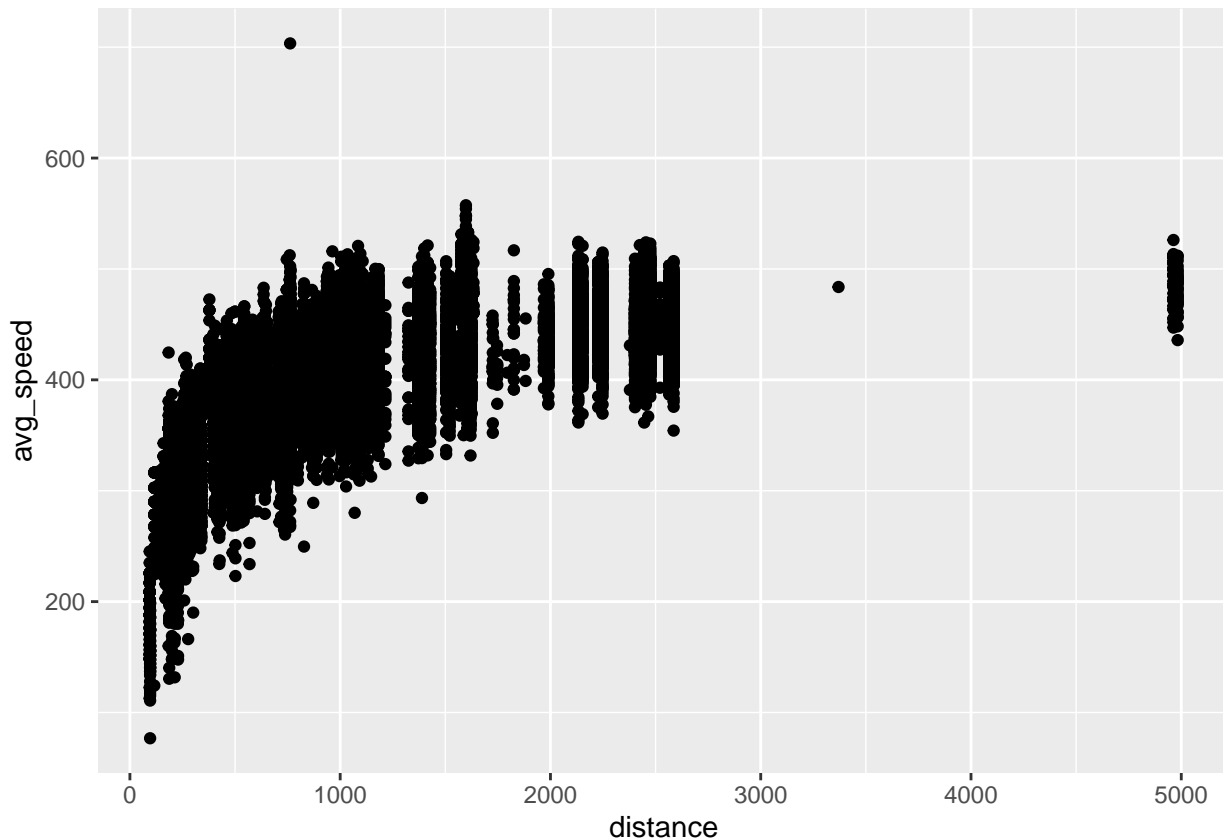
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## [32681] 373.0693 418.3178 448.1063 474.9265 439.1837 369.9174 450.4644 454.2056
## [32689] 383.1579 463.1642 355.5000 369.7059 240.0000 434.4361 260.8163 208.8889
## [32697] 341.6842 395.3374 367.2727 291.2195 377.9310 262.8571 433.3784 292.6829
## [32705] 362.8916 347.6471 492.2449 317.4000 409.2857 439.5224 422.4658 472.1538
## [32713] 423.0769 208.8889 437.3626 379.3220 328.9888 418.2692 277.6744 397.8462
## [32721] 438.4615 364.0000 468.2022 306.6667 381.5789 344.8000 409.9160 280.5000
## [32729] 414.9533 368.5714 323.8095 471.6084 466.6667 410.3226 410.8475

```

8. Make a scatterplot of `avg_speed` vs. `distance`. Describe the relationship between average speed and

distance. **Hint:** Use `geom_point()`.

```
ggplot(df, aes(x=distance, y=avg_speed)) + geom_point()
```



As the distance of a flight increases, the average speed of the flight also increases. This relationship occurs on a steeper incline for shorter flights (smaller **distance**) and levels off as flights become longer. There is some variance in average speed between distances of ~1000 mi to ~2000 mi, with some flights travelling at speeds between ~350 mph and ~550 mph. Interestingly, there is a dearth of flights between 3000 mi and 5000 mi.

9. Replicate the following plot. **Hint:** The data frame plotted only contains flights from American Airlines, Delta Airlines, and United Airlines, and the points are colored by **carrier**. Once you replicate the plot, determine (roughly) what the cutoff point is for departure delays where you can still expect to get to your destination on time.

