

Knowledge Quiz 1

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Please answer the following questions, render a pdf, and submit via moodle by 11 PM on Mon Oct 7.

Guidelines:

- No consulting with anyone else (other than clarification questions from Professor Roback)
- You may use only materials from this class (our class webpage, links on moodle, our 3 online textbooks, files posted to the RStudio server)
- No online searches or use of large language models like ChatGPT

Pledge:

I pledge my honor that on this quiz I have neither given nor received assistance not explicitly approved by the professor and that I am aware of no dishonest work.

- type your name here to acknowledge the pledge: Gracia Larsen-Schmidt
- OR
- place an X here if you intentionally are not signing the pledge: _____

```
library(tidyverse)
```

1. Here's is a crazy list that tells you some stuff about data science. Give code that will produce **exactly** the following outputs.

```
data_sci <- list(  
  first = c("first it must work", "then it can be" , "pretty"),  
  DRY = c("Do not", "Repeat", "Yourself"),  
  dont_forget = c("garbage", "in", "out"),  
  our_first_tibble = mpg,  
  integers = 1:25,  
  doubles = sqrt(1:25),  
  tidyverse = c(pack1 = "ggplot2",
```

```

        pack2 = "dplyr",
        pack3 = "lubridate",
        etc = "and more!"),
  opinion = list("SDS 264 is",
               c("awesome!", "amazing!", "rainbows!"))
)

str(data_sci)

```

List of 8

```

$ first      : chr [1:3] "first it must work" "then it can be" "pretty"
$ DRY        : chr [1:3] "Do not" "Repeat" "Yourself"
$ dont_forget : chr [1:3] "garbage" "in" "out"
$ our_first_tibble: tibble [234 x 11] (S3: tbl_df/tbl/data.frame)
..$ manufacturer: chr [1:234] "audi" "audi" "audi" "audi" ...
..$ model        : chr [1:234] "a4" "a4" "a4" "a4" ...
..$ displ        : num [1:234] 1.8 1.8 2 2 2.8 2.8 3.1 1.8 1.8 2 ...
..$ year         : int [1:234] 1999 1999 2008 2008 1999 1999 2008 1999 1999 2008 ...
..$ cyl          : int [1:234] 4 4 4 4 6 6 6 4 4 4 ...
..$ trans        : chr [1:234] "auto(l5)" "manual(m5)" "manual(m6)" "auto(av)" ...
..$ drv          : chr [1:234] "f" "f" "f" "f" ...
..$ cty          : int [1:234] 18 21 20 21 16 18 18 18 16 20 ...
..$ hwy          : int [1:234] 29 29 31 30 26 26 27 26 25 28 ...
..$ fl           : chr [1:234] "p" "p" "p" "p" ...
..$ class        : chr [1:234] "compact" "compact" "compact" "compact" ...
$ integers      : int [1:25] 1 2 3 4 5 6 7 8 9 10 ...
$ doubles       : num [1:25] 1 1.41 1.73 2 2.24 ...
$ tidyverse     : Named chr [1:4] "ggplot2" "dplyr" "lubridate" "and more!"
..- attr(*, "names")= chr [1:4] "pack1" "pack2" "pack3" "etc"
$ opinion        :List of 2
..$ : chr "SDS 264 is"
..$ : chr [1:3] "awesome!" "amazing!" "rainbows!"

```

a)

```
data_sci[1][[1]]
```

```
[1] "first it must work" "then it can be"      "pretty"
```

```
[1] "first it must work" "then it can be"      "pretty"
```

b)

```
data_sci[2]
```

```
$DRY
```

```
[1] "Do not"    "Repeat"    "Yourself"
```

```
$DRY
```

```
[1] "Do not"    "Repeat"    "Yourself"
```

c)

```
data_sci[[5]]*2
```

```
[1]  2  4  6  8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50
```

```
[1]  2  4  6  8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50
```

d)

```
data_sci[[8]][[2]][3]
```

```
[1] "rainbows!"
```

```
[1] "rainbows!"
```

e)

```
data_sci[[3]][c(1, 2, 1, 3)]
```

```
[1] "garbage" "in"      "garbage" "out"
```

```
[1] "garbage" "in"      "garbage" "out"
```

f)

```
data_sci[[4]][c("hwy", "cty")]
```

```
# A tibble: 234 x 2
```

	hwy	cty
	<int>	<int>
1	29	18
2	29	21
3	31	20
4	30	21
5	26	16
6	26	18
7	27	18
8	26	18
9	25	16
10	28	20

```
# i 224 more rows
```

```
# A tibble: 234 x 2
```

	hwy	cty
	<int>	<int>
1	29	18
2	29	21
3	31	20
4	30	21
5	26	16
6	26	18
7	27	18
8	26	18
9	25	16
10	28	20

```
# ... with 224 more rows
```

2. Write a function called `summary_stats()` that allows a user to input a tibble, numeric variables in that tibble, and summary statistics that they would like to see for each variable. Using `across()`, the function's output should look like the example below when you run it with the following inputs.

```
summary_stats <- function(data, vars = where(is.numeric), stat_fcts) {  
  data |>  
    summarize(  
      across({vars}), stat_fcts),  
}
```

```

    n = n())
}

```

```

summary_stats(mtcars,
  vars = c(mpg, hp, wt),
  stat_fcts = list(mean = mean,
                    median = median,
                    sd = sd,
                    IQR = IQR))

```

```

mpg_mean mpg_median   mpg_sd mpg_IQR  hp_mean hp_median   hp_sd hp_IQR
1 20.09062      19.2 6.026948   7.375 146.6875      123 68.56287   83.5
  wt_mean wt_median    wt_sd wt_IQR  n
1 3.21725      3.325 0.9784574 1.02875 32

```

```

summary_stats(mtcars,
  vars = c(mpg, hp, wt),
  stat_fcts = list(mean = mean,
                    median = median,
                    sd = sd,
                    IQR = IQR))

```

```

# mpg_mean mpg_median   mpg_sd mpg_IQR  hp_mean hp_median   hp_sd hp_IQR wt_mean
# 1 20.09062      19.2 6.026948   7.375 146.6875      123 68.56287   83.5 3.21725
# wt_mean   wt_median    wt_sd wt_IQR  n
# 1 3.21725      3.325 0.9784574 1.02875 32

```

3. The Central Limit Theorem is one of the most amazing results in all of mathematics. It says that if you take random samples from any population, if the sample size is large enough, the sample means will follow a normal distribution. This is true no matter how not-normal the original population is - crazy but true!! Let's explore the CLT in two steps.

a) Write a for loop that takes 10,000 samples of size 30 from a skewed distribution and then plots the 10,000 means in a histogram to let us see if the histogram follows a normal distribution. Here are a couple of hints:

- `rexp(30, rate = 0.2)` will produce a random sample of size 30 from a skewed distribution
- `tibble(x = x)` will take a vector `x` and turn it into a column of a tibble that can be used in `ggplot`

```

x <- vector("double", 10000)
for (i in 1:10000) {
  sample <- rexp(30, rate = 0.2)
  x[i] <- mean(sample)
}
x

```

```

[1] 4.344918 5.506226 6.025593 4.075008 4.559266 5.160845 5.159481 5.384857
[9] 6.143635 5.879922 7.119241 4.876631 5.320988 4.800327 6.620535 4.275692
[17] 4.181560 5.447450 4.740108 3.658851 3.749405 6.049426 4.602405 4.281983
[25] 6.000950 5.837191 4.374702 4.924731 5.136918 5.337372 5.094514 5.052110
[33] 4.709841 4.352055 5.217043 3.435507 4.228162 5.119388 4.947856 5.851088
[41] 5.271008 4.494998 5.100588 4.087186 6.023744 4.717871 4.466578 3.612881
[49] 5.253085 5.367922 5.049100 4.508441 4.207802 3.172938 5.555255 6.119731
[57] 4.788537 3.822849 5.227912 5.017662 6.376263 7.482297 5.340882 5.413884
[65] 4.531020 3.895557 5.537962 4.563839 4.790975 4.627321 5.365657 5.669939
[73] 5.942861 4.752562 4.667729 4.495313 3.748203 5.718548 5.130636 4.599397
[81] 5.243281 4.491618 6.523061 5.387980 3.701665 4.287956 4.700463 3.621442
[89] 5.109928 6.252296 4.649388 3.339570 3.782152 4.379908 4.433836 4.373996
[97] 4.236916 5.137265 5.891263 5.257338 4.811805 4.244024 5.175248 5.664682
[105] 4.788810 4.001901 4.023174 5.883287 5.235317 5.981475 4.419086 4.046616
[113] 4.353022 4.806567 3.699648 4.539167 4.940030 5.310331 5.365614 4.933913
[121] 4.050483 4.018626 5.398388 4.787132 3.151971 4.428579 6.632066 4.795963
[129] 4.745618 4.274011 4.614127 4.939921 4.354755 2.682388 4.956210 3.748990
[137] 4.569343 4.250851 3.970337 5.617432 5.197453 5.636637 4.445590 3.618628
[145] 4.983454 6.536442 4.306194 5.113663 6.798536 5.833218 4.951736 5.092481
[153] 5.337903 5.979296 4.781003 6.501661 4.172967 4.582818 5.124811 3.920083
[161] 3.575205 4.335271 3.800925 5.449675 4.489329 6.832987 3.480538 3.865826
[169] 5.561261 4.800849 4.911593 3.183956 2.965157 4.547680 4.726037 4.972844
[177] 5.596489 5.459108 4.059227 5.395206 6.791115 5.652174 6.472294 6.038529
[185] 3.728898 3.372419 4.196228 4.536977 2.890898 4.838713 3.111563 4.440340
[193] 5.643918 3.886485 4.072983 5.940259 5.349012 4.872422 4.370871 3.923921
[201] 4.965209 3.932716 4.508331 5.279471 5.005275 4.716604 6.814428 4.530313
[209] 5.981965 5.064381 4.786829 3.979574 3.687029 5.038864 5.448453 4.433052
[217] 5.457632 6.158795 3.966730 4.390764 4.671197 4.083186 4.955262 4.435359
[225] 5.355608 3.567153 4.890391 3.964412 3.584129 5.107100 5.452018 5.645944
[233] 3.945114 4.289684 5.317600 4.854160 4.750692 4.431523 4.329077 5.346516
[241] 4.470886 4.503574 4.478418 4.751564 6.396651 7.495847 5.071438 5.740524
[249] 5.102380 6.852299 5.699445 6.182630 4.976596 5.743149 3.758056 4.086902
[257] 3.888185 4.800780 5.889376 4.176975 5.677633 3.981882 4.137077 6.805261
[265] 5.326827 5.324118 4.102561 6.446646 5.623787 2.800420 5.225206 3.982940
[273] 4.519870 7.186307 4.763325 3.804134 4.397181 3.903112 5.341107 5.212695

```

[281] 5.880869 5.437810 5.330369 4.548953 4.011270 4.785394 4.161712 4.082953
 [289] 4.147462 3.718197 5.891584 4.696631 4.852486 3.693052 5.214290 3.420635
 [297] 5.486703 6.734981 4.044373 3.774549 4.925591 4.559446 3.464630 6.472343
 [305] 5.193711 4.961416 5.213827 4.848724 3.360874 6.030893 5.585713 6.298150
 [313] 5.945592 6.288684 4.452200 5.078831 4.019705 4.655763 4.067995 4.418256
 [321] 4.047096 5.861532 6.046452 5.290802 5.155947 5.315413 7.492085 4.537006
 [329] 5.708732 6.056425 3.851157 5.863825 4.731841 6.385027 4.908400 4.064713
 [337] 4.001905 5.102545 6.021018 4.519024 3.611799 6.921535 6.605383 6.011576
 [345] 6.014599 4.177956 4.429981 3.841146 6.499215 5.597094 5.877846 6.025845
 [353] 4.155105 6.533309 5.210814 5.087933 4.594975 5.411210 5.350369 4.310242
 [361] 5.661145 5.943983 3.822191 6.080798 5.120744 5.077303 6.809779 4.403492
 [369] 5.570331 2.760910 4.927939 3.569452 5.580369 5.982159 4.533451 4.661863
 [377] 5.152000 5.538866 5.088596 4.266195 5.118891 5.398675 4.401005 6.919445
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 [393] 4.738931 4.276335 4.335519 4.486718 4.857394 5.104347 4.753990 6.607810
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 [561] 6.119369 4.215499 6.872779 5.652370 3.496688 5.535141 5.126657 5.257247
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[625] 4.889091 7.465774 6.228276 4.688810 4.445273 5.562571 4.263072 4.459386
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 [921] 5.980396 5.224251 5.554967 4.947689 7.808053 4.190365 4.265333 5.068164
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 [953] 5.020394 5.892945 3.926610 6.228338 6.060594 5.800985 4.163280 6.185734
 [961] 4.342656 4.120427 3.453403 3.523110 4.400028 6.330327 4.382933 4.458151

[969] 5.462442 5.680835 6.114668 5.404739 4.951030 6.403101 4.903778 3.956245
 [977] 5.179623 5.335558 4.593637 5.082450 4.023849 5.104603 5.625421 7.609415
 [985] 5.211463 4.052917 4.929284 4.167798 4.050735 4.891679 6.458884 4.784616
 [993] 4.915815 4.836811 3.445317 4.299802 3.968860 5.838613 4.535737 3.739059
 [1001] 4.281931 4.507479 3.826353 4.729807 4.570987 3.438609 3.639220 4.817544
 [1009] 4.902382 4.986219 5.822462 4.300185 3.793303 5.922799 5.941985 4.943846
 [1017] 4.844360 6.832954 3.892947 5.922573 4.637977 4.729784 6.889527 4.184866
 [1025] 6.072237 5.535953 4.288378 5.061588 4.693854 3.976755 5.784673 4.873498
 [1033] 4.438265 5.365622 4.338172 4.144688 4.665786 5.391132 5.764596 5.965260
 [1041] 3.671748 4.133013 5.851707 3.613693 5.044603 4.874214 3.010507 5.033915
 [1049] 5.552027 4.022433 5.093762 6.079755 6.143198 5.502982 5.370563 6.112987
 [1057] 4.420657 6.598304 5.280062 6.490413 4.076488 6.128739 5.216768 3.713007
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```

```
tibble(x = x)
```

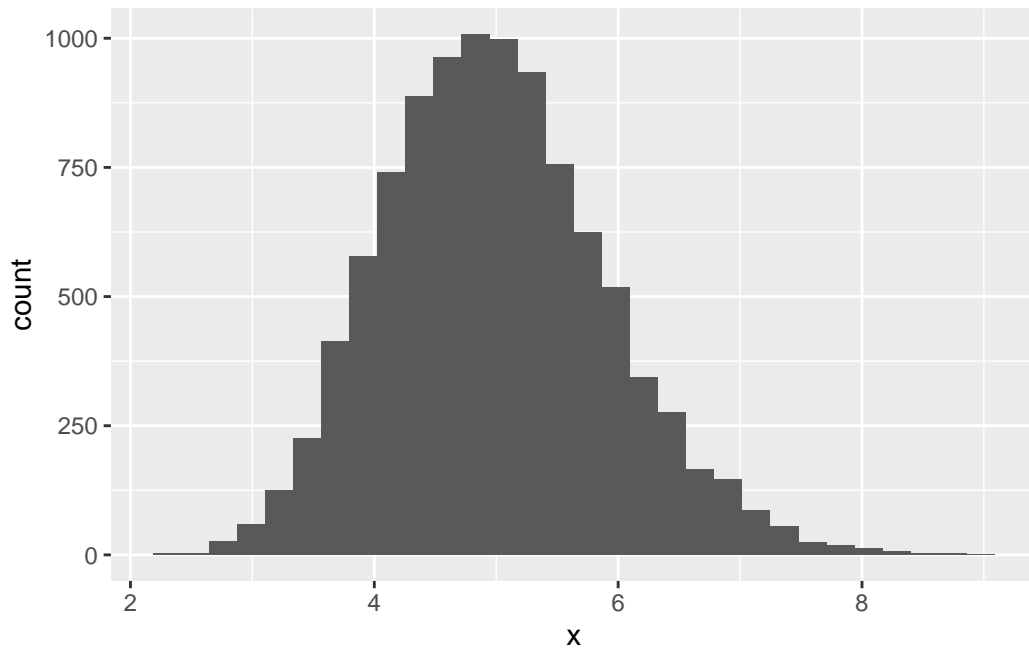
```
# A tibble: 10,000 x 1
```

```
      x
<dbl>
1  4.34
2  5.51
3  6.03
4  4.08
5  4.56
6  5.16
7  5.16
8  5.38
9  6.14
10 5.88
```

```
# i 9,990 more rows
```

```
ggplot() +
  geom_histogram(aes(x = x))
```

```
`stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



```
x <- vector("double", 10000)
for (i in 1:10000) {
  sample <- rexp(30, rate = 0.2)
  x[i] <- mean(sample)
  tibble(x = x)
  ggplot() +
    geom_histogram(aes(x = x))
}
x
```

```
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[1310]	5.403035	5.109642	6.498454	8.172218	3.661687	4.607736	6.041292
[1317]	5.325844	4.447435	5.533538	5.585730	5.943622	6.368975	4.910677
[1324]	4.911614	4.896454	4.040473	6.428714	4.095774	4.202446	5.189126
[1331]	5.948496	6.241356	4.652414	3.625169	6.292721	3.886616	5.310154
[1338]	5.476190	6.718721	7.318395	3.462795	5.772584	5.037953	6.189340
[1345]	4.538508	6.642561	6.127121	6.274854	4.284040	4.634984	5.728689
[1352]	6.205208	5.684014	4.581187	4.897768	4.825331	4.863658	5.682687
[1359]	4.019193	6.231767	4.060924	5.493632	4.013844	5.925260	4.200794
[1366]	5.866795	5.428884	5.293125	4.262052	5.323848	4.723244	4.462380
[1373]	4.513968	4.796094	4.283110	5.497767	6.042113	4.784347	6.065229
[1380]	6.147080	5.343058	4.277785	5.591036	4.928650	5.984672	4.377715
[1387]	5.271813	5.146776	4.936950	4.788248	4.903072	4.977093	3.132868
[1394]	4.555081	6.316467	4.909411	5.409395	5.370633	4.801416	5.829726
[1401]	4.841757	4.336345	5.153147	3.655128	3.966151	4.500452	4.515547
[1408]	5.080500	5.589081	3.298716	5.331573	5.310113	4.895971	4.576882
[1415]	3.699240	3.697112	4.075921	3.226003	4.447565	8.307935	4.334138
[1422]	4.573213	5.020242	4.825382	4.831076	4.354039	5.035155	6.499752
[1429]	5.282604	3.357659	5.339708	4.357859	5.537402	4.418372	5.462937
[1436]	5.089463	4.005024	4.507386	5.763372	4.746788	6.545169	5.684289
[1443]	3.836413	6.396551	3.943652	4.823588	4.174986	4.913893	5.753035
[1450]	5.975243	6.177736	4.581667	5.245160	6.700443	5.335506	4.928503
[1457]	4.279918	5.365004	4.413615	5.150252	3.469746	5.516864	5.130121
[1464]	3.914961	5.586690	4.608632	4.989762	3.538668	4.057243	5.509816
[1471]	4.985708	6.041123	6.037176	5.936056	4.744040	6.094215	4.888964
[1478]	4.815530	4.018148	5.351680	3.652883	4.338452	4.267295	4.979565
[1485]	5.249795	5.712462	4.410798	4.382712	4.199795	4.948320	4.468948
[1492]	5.180037	4.625107	5.500838	6.249045	4.768585	3.566545	4.372601
[1499]	6.331636	4.811599	4.902721	5.740785	5.986074	3.678345	4.641103
[1506]	5.445445	4.545845	4.708343	3.856050	6.957071	6.756065	4.839464
[1513]	3.576768	3.976312	4.585516	5.142860	6.093238	6.051457	5.599754
[1520]	3.882376	4.158450	5.122056	3.289402	6.985085	5.383039	5.433547
[1527]	6.399083	3.495210	4.522157	4.805322	6.159697	5.579492	5.170278
[1534]	5.165148	4.560719	4.629756	4.798227	5.079199	3.431299	4.507627
[1541]	6.425653	5.387415	5.831502	4.343348	4.404743	4.584219	4.446629
[1548]	3.176581	4.547683	4.857143	4.580594	4.841586	6.035960	4.284398
[1555]	3.714968	4.108096	5.574268	4.759713	5.361398	5.351459	4.865977
[1562]	3.884427	3.616512	4.278668	4.822619	5.643538	4.851024	3.750475
[1569]	6.195414	5.379270	5.249344	5.708810	3.749943	6.552757	3.906120
[1576]	3.945616	5.579051	4.371261	5.900086	3.145257	4.315434	3.914775
[1583]	5.730569	5.847201	5.033548	3.583936	4.704891	5.487420	4.156130

[1590]	5.026927	4.822037	7.232353	5.091533	4.237491	5.990308	5.601729
[1597]	5.701289	4.588284	3.242216	4.360752	4.099996	5.362307	3.868525
[1604]	5.820496	4.827452	4.918208	3.156959	5.800458	5.660763	4.607254
[1611]	3.945448	5.281500	6.779775	4.890215	3.561824	4.672342	5.072113
[1618]	5.918267	4.636373	4.646170	3.822936	4.389477	4.490269	3.671576
[1625]	4.421669	6.653619	4.419194	5.372727	4.524818	3.151590	4.762368
[1632]	5.587731	6.529668	5.739370	4.217512	5.447350	6.410654	4.385480
[1639]	4.835964	4.688406	4.647339	4.600542	4.047063	4.590458	6.019246
[1646]	3.595327	5.042975	4.205936	6.592093	3.753916	5.343231	4.890141
[1653]	5.831343	3.105904	3.312873	5.771045	5.354881	6.055577	3.969359
[1660]	6.287145	5.712447	6.562355	4.364223	4.951158	5.395744	5.086385
[1667]	2.930917	6.212644	5.796338	3.894730	5.409302	4.938309	2.982497
[1674]	4.605489	6.024690	3.918538	5.335940	5.093756	4.096278	5.016221
[1681]	6.291307	5.353512	4.689243	5.370395	5.292787	4.252719	4.528311
[1688]	5.465998	5.648765	5.955755	3.020623	6.155239	4.110250	3.013742
[1695]	6.561777	6.193666	6.255564	6.049449	5.898326	5.007670	4.453580
[1702]	4.620669	5.233413	4.944866	2.924617	5.084442	4.765677	4.891070
[1709]	5.154337	3.436860	5.035146	6.173452	5.535049	4.112421	4.688820
[1716]	4.700079	4.892911	3.725397	4.219881	5.839597	4.648736	4.760264
[1723]	3.883302	4.598800	4.992348	4.727564	5.524124	6.099192	4.804991
[1730]	6.088241	4.510357	4.796234	3.489697	4.643314	5.606579	5.124704
[1737]	3.504971	4.982901	7.010580	4.879144	3.877830	4.958585	3.605187
[1744]	4.832878	5.790384	5.557456	4.751356	5.875846	4.782484	5.172706
[1751]	4.672716	6.762734	5.456177	5.840142	5.076846	4.712809	5.272636
[1758]	3.998194	5.626522	5.695198	3.802077	6.833632	5.640710	4.960790
[1765]	4.567630	4.374695	4.340081	5.604293	4.024067	6.424666	4.943381
[1772]	3.479900	4.580506	3.910867	3.896020	4.141981	7.095739	3.593322
[1779]	6.014660	3.433346	4.832443	4.776390	6.084897	4.947211	5.467383
[1786]	4.731776	5.180525	4.863102	5.248948	4.681045	6.781569	4.344991
[1793]	5.254981	3.266528	4.686574	4.620450	4.362051	4.598433	5.177356
[1800]	7.434355	4.135572	6.342022	5.889388	3.681262	5.101778	5.439793
[1807]	7.506188	5.333972	5.781471	6.440269	4.883890	6.707335	4.995291
[1814]	4.669928	4.613457	6.092375	4.886351	4.821810	5.119017	4.843680
[1821]	5.166094	4.293721	4.338671	4.125117	4.260927	6.386480	4.343260
[1828]	4.603313	4.520239	2.933838	5.297007	4.380914	4.325149	5.158731
[1835]	5.150863	5.972238	5.639761	5.266884	3.676484	4.046166	5.006214
[1842]	4.877551	6.056899	3.245651	5.787002	4.017708	3.831233	4.935006
[1849]	4.814115	5.705122	5.121842	6.720440	5.429554	4.386753	6.269967
[1856]	6.796207	4.653031	5.010726	3.756887	4.696413	6.744769	5.970846
[1863]	5.662473	6.152753	4.136545	5.990547	4.849480	6.945109	5.878172
[1870]	4.650624	5.062977	4.692856	4.640470	5.759953	4.115820	5.435430
[1877]	3.709681	4.461786	4.953464	6.147600	4.699108	5.015311	5.254075
[1884]	5.996560	5.486895	4.612210	6.476042	4.303802	4.773863	4.442583

[1891]	3.852477	4.422645	6.062556	6.044011	4.512569	4.514677	3.550644
[1898]	5.043658	4.479605	6.655040	4.983286	5.322309	4.181373	3.898207
[1905]	3.527151	3.663209	5.055819	5.045759	4.573350	4.544194	4.143048
[1912]	5.805245	5.603659	3.884147	6.153082	5.685778	5.008072	5.992797
[1919]	5.253564	4.133017	5.545790	6.223021	5.076286	5.744394	3.967341
[1926]	4.519160	4.633924	4.735391	4.399205	3.937229	5.292080	4.637994
[1933]	4.407651	6.021719	4.838463	3.531677	5.157309	4.619263	3.961051
[1940]	5.125514	4.605958	5.904356	5.387653	5.245719	5.061728	5.834719
[1947]	4.630397	4.644977	4.621555	3.956973	5.923907	3.999471	4.928959
[1954]	5.238740	3.878703	4.389241	5.596498	4.442981	4.576236	3.708163
[1961]	3.200337	3.751161	3.963134	4.471430	4.094793	5.751422	4.401042
[1968]	4.864091	4.966012	5.466612	6.703334	5.047276	5.033190	4.892051
[1975]	4.393416	6.346240	5.919398	4.648968	4.685740	4.650887	5.150805
[1982]	4.615760	5.758561	5.379499	4.851882	6.769826	4.162797	4.528070
[1989]	3.524549	4.024275	6.579480	4.611600	5.242391	6.399129	6.824017
[1996]	5.387332	4.188587	4.943981	4.091847	3.765611	5.796995	3.498324
[2003]	5.787681	4.281081	6.283637	3.703675	4.772385	5.702280	3.643110
[2010]	5.389777	3.211059	5.194628	5.332378	2.761800	3.828236	4.685959
[2017]	4.628152	5.257033	4.792129	5.262953	4.400058	4.380167	5.342010
[2024]	4.574541	4.897502	5.185796	4.941370	5.029694	3.346485	3.272534
[2031]	5.245703	6.570487	3.650141	3.889554	5.608980	5.380083	5.414480
[2038]	6.561674	4.738701	4.645812	6.039458	5.791391	5.383774	4.345046
[2045]	4.203093	3.896145	5.003084	4.492520	6.078843	5.040414	5.019041
[2052]	5.420243	6.596879	4.211052	6.253092	6.202718	5.256537	3.384379
[2059]	4.769824	4.405134	5.702710	5.518527	5.204112	4.326107	5.490649
[2066]	5.135874	4.355464	6.639919	3.676839	3.044648	5.896567	4.547375
[2073]	6.172270	5.489468	4.861868	5.173776	4.994027	5.651734	2.968590
[2080]	4.118191	4.858879	4.410796	6.594180	6.495271	4.781963	3.305788
[2087]	4.898560	7.214542	3.709003	3.631961	3.888960	2.759513	4.257243
[2094]	5.359744	3.883481	4.833937	5.780638	4.888168	5.185565	5.608092
[2101]	5.641628	4.418357	4.357840	5.718105	4.424507	4.579704	3.994407
[2108]	4.634072	3.858474	5.777000	5.347661	4.049028	4.535410	6.023253
[2115]	5.432755	4.521045	3.488678	3.561767	5.919816	4.300538	5.366978
[2122]	6.092807	3.619392	4.233133	4.879012	3.249819	4.754279	4.938568
[2129]	3.635945	4.477841	3.872861	4.491272	5.893159	4.139331	4.964365
[2136]	4.771523	4.930510	4.255264	3.956470	4.282073	3.981127	5.237762
[2143]	5.235294	7.244989	5.552998	5.208228	5.399396	4.803177	5.519090
[2150]	4.552036	4.275943	3.944609	4.428830	5.156620	6.415035	4.974641
[2157]	5.902516	5.444881	3.392547	5.910861	3.935244	3.312939	4.400255
[2164]	6.113347	4.477187	6.198317	4.942758	4.801632	4.395597	4.689372
[2171]	4.931662	5.136427	4.081094	4.600175	5.471978	4.207090	4.108413
[2178]	4.727898	4.353082	4.375867	5.370032	3.600273	5.162924	3.945643
[2185]	5.339293	5.567398	5.566993	5.327508	5.998719	4.102398	4.412996

[2192]	3.786528	6.281596	5.328195	5.927105	4.617776	3.513428	4.054900
[2199]	3.945112	4.675359	3.987734	4.852157	5.700300	5.002292	6.168738
[2206]	5.402840	4.313581	5.061463	4.521015	6.326228	7.550038	3.747137
[2213]	5.675557	5.422807	3.244465	4.950590	4.988335	4.743505	5.910906
[2220]	5.191901	5.545132	4.393061	5.121606	4.476663	4.564048	4.240655
[2227]	5.007726	3.284774	5.497845	3.755834	5.538795	6.314735	5.001191
[2234]	6.113155	3.883341	3.555539	4.800782	5.811264	5.949186	5.666166
[2241]	4.420535	5.516801	5.905940	4.864390	5.109800	6.493529	5.662507
[2248]	5.728046	5.979976	3.793537	5.947255	4.816606	5.145340	6.915403
[2255]	5.259413	4.831818	5.493215	5.636173	4.789916	3.695736	4.663021
[2262]	4.095609	5.604749	4.802706	4.254284	4.943935	3.366564	4.249569
[2269]	5.479470	5.678270	5.137652	6.010026	4.831950	4.639099	4.860377
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[2283]	3.365347	5.642414	4.637976	5.142989	5.150568	5.553090	5.384284
[2290]	6.022939	4.771930	3.513552	6.040072	3.693375	5.554862	5.061189
[2297]	4.462659	5.061390	5.259440	7.331277	3.172224	3.813571	4.223752
[2304]	7.178483	4.337145	4.388625	5.109323	5.988306	5.833929	7.228685
[2311]	5.065023	4.482882	4.338276	3.769647	4.104611	7.170543	5.037340
[2318]	4.363836	4.497701	4.498987	5.362910	5.763763	5.061519	4.312852
[2325]	5.487998	5.926195	4.361745	6.225273	4.415074	4.675700	5.321403
[2332]	5.186195	4.673494	6.898279	3.982362	5.460512	5.047983	3.541982
[2339]	5.529344	5.871096	5.015787	4.292033	6.014278	3.759046	4.012195
[2346]	3.867286	6.030109	5.226880	4.012748	6.388537	4.748851	4.917040
[2353]	5.242802	4.454884	6.417239	3.998073	4.979794	5.061478	3.326738
[2360]	3.542994	4.955910	5.626965	5.616492	5.171374	4.131895	4.510945
[2367]	4.604450	3.076998	6.039100	5.502875	4.229556	3.960345	3.533118
[2374]	5.792901	6.157748	3.798092	5.022514	5.555249	4.370396	6.437155
[2381]	4.901953	3.581916	4.522348	4.577541	6.197999	5.258525	7.169912
[2388]	6.772944	4.140614	3.637179	5.435767	4.596277	4.248765	4.301555
[2395]	5.156624	5.374078	5.196679	5.649329	3.592547	4.092815	4.686497
[2402]	5.699457	4.218337	5.908615	4.603260	5.275810	3.813645	6.194401
[2409]	3.899497	3.734977	5.367248	5.020787	4.126721	4.504025	3.583065
[2416]	5.041039	4.597256	3.645760	7.597742	6.300612	5.104751	6.135789
[2423]	4.863980	5.972870	4.647906	3.701104	4.941677	6.666008	5.089454
[2430]	5.482636	5.461333	4.950570	5.026475	4.803934	4.642989	3.954732
[2437]	3.802687	4.173571	4.376409	5.093114	3.664490	5.549935	4.713866
[2444]	4.465098	4.092882	4.700925	5.671454	5.568216	4.521127	6.033450
[2451]	5.780732	3.979367	6.251418	4.101641	4.655597	5.998738	4.611864
[2458]	4.639631	5.768102	5.893780	5.110553	5.272013	5.877203	5.469659
[2465]	5.596061	5.095176	6.357323	4.875549	6.308418	6.065476	5.055453
[2472]	4.537797	6.024943	6.157964	4.220440	4.881123	4.406533	4.829538
[2479]	4.067217	5.264873	5.847116	4.211901	5.347591	4.251392	4.585418
[2486]	5.635861	3.839419	5.373424	4.686092	6.257964	4.185331	5.376135

[2493]	5.689608	4.255819	3.194321	4.676221	3.718103	4.654337	4.445738
[2500]	4.101665	4.897791	5.073659	4.374684	5.751255	5.335548	4.948649
[2507]	6.651266	5.149883	3.770822	4.158080	4.408233	5.924442	4.412185
[2514]	5.547504	5.807116	5.292242	4.646422	6.093074	6.607595	4.622930
[2521]	4.204753	5.334050	5.558416	4.279376	4.801141	4.845322	5.837527
[2528]	5.376951	5.537579	7.508230	4.362276	5.208522	5.283699	5.330907
[2535]	4.487379	5.899653	4.190802	5.237107	3.043032	7.098829	5.212922
[2542]	4.743663	4.052744	5.298603	3.801866	5.347320	3.825876	7.359444
[2549]	6.614270	4.544346	5.927709	6.735085	6.277291	6.020609	5.021073
[2556]	7.313648	5.464629	3.764306	5.053903	3.203891	5.342680	5.221408
[2563]	4.648478	5.728614	3.783640	4.671382	6.485675	4.302257	5.387585
[2570]	5.157433	4.530775	5.060290	5.090053	4.849323	4.983144	5.183996
[2577]	5.899043	5.460150	4.736919	4.373139	6.665875	5.624431	6.178331
[2584]	5.810820	3.689535	5.101299	4.564263	5.454434	4.846014	4.295543
[2591]	4.208363	5.790548	3.786444	4.580336	5.174902	5.356996	5.300474
[2598]	4.464310	5.998882	5.293777	5.597949	4.821409	5.721129	5.278179
[2605]	5.455448	4.494265	4.329631	4.938541	5.840672	3.873078	4.380220
[2612]	4.086436	4.960783	6.799580	6.305284	4.122854	3.679789	6.180484
[2619]	4.668800	5.159716	5.710253	4.887463	3.882709	5.958921	6.551302
[2626]	4.843202	6.663259	4.602848	4.950821	4.692671	5.072225	4.556991
[2633]	4.189354	6.829146	3.825620	3.670699	5.299368	7.318171	4.214750
[2640]	4.046594	4.303588	4.010709	4.168536	4.694726	5.785029	4.656003
[2647]	5.964852	5.308446	4.891385	5.869340	6.554192	5.225757	4.290643
[2654]	3.674977	3.056048	4.198505	3.645886	3.634119	5.454416	4.876627
[2661]	4.973003	4.066404	3.939670	6.625185	4.074426	5.385481	3.955511
[2668]	6.143203	5.433680	4.849797	4.797980	5.392564	3.629930	5.781531
[2675]	3.590424	6.550486	5.339314	6.243218	4.331352	4.505116	6.324142
[2682]	6.215030	5.693669	5.662388	4.957141	6.186421	6.776700	4.977278
[2689]	4.661339	5.861138	5.518594	4.575372	4.715601	3.278053	4.661053
[2696]	4.317028	6.002814	4.995906	5.266121	5.376437	5.022339	4.551432
[2703]	3.981743	6.104696	4.244498	4.685225	4.485093	6.520718	4.858315
[2710]	5.663578	4.701103	6.277611	5.763519	4.677509	4.391238	5.515767
[2717]	5.799632	3.839411	4.734593	4.247118	4.633000	6.156393	3.690802
[2724]	5.128173	4.165121	4.650878	5.065942	6.313500	3.662459	5.940410
[2731]	4.656059	4.537374	5.136424	3.609304	2.985516	4.619783	5.347749
[2738]	4.468413	5.675435	5.978327	5.607606	3.322255	5.538339	3.512821
[2745]	4.356922	4.703639	5.215409	4.564159	3.325258	4.607335	6.269608
[2752]	4.355465	4.937723	4.591794	5.569795	5.036244	5.368063	5.486413
[2759]	5.141159	3.950265	4.960149	6.289185	4.919766	5.390065	6.398329
[2766]	4.918348	4.484446	5.987445	3.746422	4.327342	4.784814	3.685431
[2773]	5.047801	5.016938	5.513344	4.608481	4.182479	5.780578	4.601840
[2780]	5.263525	5.455252	4.963729	5.386701	5.267340	3.900140	5.081309
[2787]	5.404030	6.949512	6.069638	3.265764	5.548282	5.381163	3.914860

[2794]	5.796464	5.792079	4.683897	5.002071	5.934421	5.194843	4.707814
[2801]	4.750086	5.191509	4.850606	4.790186	4.742321	5.887239	5.153514
[2808]	4.364697	6.111234	4.394067	4.465473	3.628726	4.586093	4.102211
[2815]	5.260303	6.031611	4.453582	4.713842	5.308601	4.772302	4.857992
[2822]	4.359242	5.267403	3.485716	4.070735	4.884741	5.675117	3.410814
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[2836]	4.087478	4.142019	6.691503	5.099876	4.118346	5.930668	4.705654
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[2850]	5.051972	4.115413	5.025174	4.813143	3.962587	5.439362	4.509891
[2857]	4.737505	4.975805	4.889713	3.753934	5.017993	4.334204	6.911915
[2864]	6.259688	7.234852	5.277625	4.560122	5.952546	5.311709	3.833502
[2871]	5.915675	3.704947	5.734814	4.908777	5.695152	4.596076	5.605914
[2878]	5.496055	6.067257	5.092013	4.424150	3.663373	6.142129	5.434146
[2885]	4.172565	6.102250	6.252170	4.105394	5.358725	4.410649	4.130315
[2892]	4.653796	5.087286	5.612920	5.081826	4.438541	5.090878	5.837879
[2899]	5.428659	4.935865	4.052011	5.889051	2.944038	4.296170	4.548036
[2906]	4.923419	6.652524	4.270728	4.308194	5.324608	5.696318	3.765210
[2913]	4.936860	4.570121	4.629367	5.184395	3.626691	4.075798	6.297677
[2920]	5.020253	5.618648	4.776482	4.199367	4.944534	5.361038	5.898397
[2927]	5.446480	5.058625	4.698102	2.672714	5.654464	4.905798	3.599697
[2934]	5.374260	4.620387	5.177970	4.106619	4.609055	5.339524	6.270848
[2941]	5.623198	4.603271	4.873561	5.159640	4.308434	6.055828	4.758609
[2948]	6.410921	4.577381	5.967642	3.959829	4.411619	5.381197	5.215987
[2955]	6.705358	5.557437	7.471789	4.110907	4.795231	4.384829	5.632625
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[2969]	7.611611	3.952579	7.033828	4.445891	5.033558	5.259209	4.832441
[2976]	4.742908	5.232129	3.189823	6.235604	4.489328	6.759448	6.554300
[2983]	5.290890	5.783142	5.294548	4.836996	4.908003	5.092799	4.829088
[2990]	7.441868	4.137285	4.642756	3.636503	4.555274	4.745553	3.518082
[2997]	4.986200	5.255527	4.352809	3.811355	6.725919	5.248228	5.240607
[3004]	4.662395	4.214291	4.564722	6.426063	6.698711	4.471931	3.459106
[3011]	4.468008	5.955263	4.474755	4.925856	4.675061	5.274843	3.862286
[3018]	3.894354	5.344558	3.457418	4.838428	5.781731	5.007333	5.312290
[3025]	7.016686	4.671173	5.165071	5.637725	6.091316	5.308207	4.475087
[3032]	7.941356	5.342269	4.375930	6.807156	4.627526	6.041219	5.435980
[3039]	4.478622	6.267659	5.378782	5.048274	6.096249	4.644203	3.539468
[3046]	6.441129	4.919451	4.412049	4.855689	3.847461	4.443950	5.291591
[3053]	4.326937	4.091336	4.695136	5.353407	3.566055	4.998525	4.317833
[3060]	3.804453	4.060881	5.789418	4.124998	5.461661	5.984395	5.920299
[3067]	3.495084	3.954812	4.249743	5.482194	5.592088	5.791625	5.782721
[3074]	4.778475	4.365983	4.197961	4.096062	6.201269	4.300048	5.728736
[3081]	4.904123	5.751648	4.307356	6.556479	6.752838	3.074536	5.803714
[3088]	4.352267	7.153418	3.890667	3.835851	6.245310	5.917757	6.570848

[3095]	6.214150	6.371271	4.977884	7.657778	4.353729	4.240374	5.237207
[3102]	4.916378	4.703107	4.688282	5.334260	5.440527	4.873527	4.291503
[3109]	4.554187	4.289316	5.854225	4.862805	4.239013	4.293317	3.928774
[3116]	5.104897	6.484956	4.659005	4.580650	6.776020	3.938684	4.582266
[3123]	4.531523	5.335523	6.104221	6.398716	4.709135	5.170481	5.218711
[3130]	5.242781	3.253750	5.566201	3.760037	5.893416	4.999378	4.395520
[3137]	5.828104	5.021526	5.686607	5.384773	3.799341	4.067228	3.837412
[3144]	4.151124	5.629094	4.908425	4.532755	5.981742	3.996267	5.973511
[3151]	4.301915	4.911043	4.278457	4.715854	4.766437	4.701052	5.175080
[3158]	6.200066	4.770376	4.166883	3.637973	3.429601	6.501360	4.626135
[3165]	5.871383	4.673456	4.678999	5.549218	4.464809	4.927571	6.237293
[3172]	4.218969	3.705930	5.174907	5.973031	4.402939	4.147705	6.293339
[3179]	6.415636	4.948808	4.537633	3.489627	5.527826	6.127916	4.695417
[3186]	5.817780	7.329112	4.275665	6.362034	4.685575	4.550162	3.923938
[3193]	6.670974	5.140725	4.773631	3.948940	5.982118	4.702060	4.627310
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[3207]	4.211719	4.853888	5.094076	4.951219	5.182985	5.499616	4.063903
[3214]	5.012088	6.366455	5.326488	4.326574	4.627372	6.213099	6.434508
[3221]	5.545830	5.160601	5.671501	6.404731	4.421766	5.324501	5.460702
[3228]	5.155444	4.414008	5.775425	5.494875	5.119272	5.699325	5.862053
[3235]	5.298926	4.994309	4.070576	3.855822	4.200704	5.032036	4.081385
[3242]	5.186506	3.808102	6.403192	3.909955	7.237025	7.201219	5.148419
[3249]	4.097926	4.301305	5.337120	4.609192	6.827106	4.589955	4.832472
[3256]	5.757490	6.693191	5.722913	5.802166	4.891337	5.033284	4.601373
[3263]	5.295950	5.639006	5.640338	3.339556	4.329850	5.014819	4.779940
[3270]	6.170023	5.782552	5.313669	5.349473	3.919733	4.372336	5.885767
[3277]	4.464209	4.636741	5.306518	5.608425	5.385469	3.439912	5.086442
[3284]	4.493350	4.123900	4.089909	3.773408	6.324691	6.007159	5.384400
[3291]	4.696084	5.502323	4.193467	5.908157	4.921253	4.135342	6.135230
[3298]	5.145128	3.921326	5.269499	5.833053	5.125106	4.618139	4.863037
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[3312]	5.122747	4.822649	3.465968	4.426025	3.980451	6.166654	6.463011
[3319]	5.712193	4.970017	5.604042	5.987051	4.662396	4.190026	4.388670
[3326]	4.254574	5.556161	4.881442	5.964844	4.090778	4.455422	4.520299
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[3375]	6.536180	5.496815	3.491234	5.111473	5.963121	5.364229	4.755209
[3382]	4.676658	4.833345	4.080693	4.434550	3.250924	5.511305	4.764948
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[3396]	5.357662	4.367650	4.149750	5.549791	6.598244	5.535893	4.109254
[3403]	5.253327	4.506540	5.688446	4.969529	4.839678	4.867187	4.362232
[3410]	3.342074	4.764758	6.114886	5.483878	6.004923	6.151585	6.967731
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[3424]	4.760750	6.159160	4.968029	3.394491	6.859567	6.208531	3.320320
[3431]	5.492533	5.597377	4.373371	5.467339	3.892491	4.739171	5.653125
[3438]	5.307688	4.980940	5.090860	4.673869	5.976712	4.438880	5.428456
[3445]	4.228585	5.027463	4.905314	4.842417	6.285330	4.607600	6.078681
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[3494]	3.154470	3.824233	6.115445	4.231528	6.004139	3.576306	5.601599
[3501]	4.820284	4.370190	4.902709	4.542026	3.358522	5.707343	5.196904
[3508]	6.032385	4.987584	5.621037	6.451716	5.758403	3.737489	4.409269
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[3627]	6.167041	4.364877	3.231175	3.834046	6.246762	5.875203	6.244863
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[3662]	4.560329	4.252755	6.869287	5.602389	3.522799	5.590352	5.554678
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[3683]	3.873934	6.466336	4.209432	4.773627	6.257037	5.147352	4.915931
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[3795]	3.024479	6.363234	4.405939	5.619799	5.341638	5.914675	4.248174
[3802]	5.731794	4.344565	4.623807	6.094910	5.859378	4.663897	5.580348
[3809]	5.903237	4.591982	4.540159	4.741998	4.435592	6.346592	4.597043
[3816]	5.786420	4.943551	5.294827	5.840263	3.930749	5.226404	5.456051
[3823]	5.429473	3.276956	5.017464	5.048031	5.670525	5.214341	4.463323
[3830]	5.029530	5.108153	5.397061	5.834473	4.481386	4.623456	4.915975
[3837]	4.161833	4.950001	6.037071	5.663754	4.522229	5.345637	3.765963
[3844]	6.442014	4.874936	3.672864	6.314878	3.831505	4.715396	4.685268
[3851]	7.372162	5.297287	5.170279	4.037518	5.992068	3.858422	4.917662
[3858]	4.154797	5.255033	5.052648	4.766674	6.343997	6.214970	5.483826
[3865]	5.130537	4.542514	5.552169	6.076782	5.081107	3.155336	5.746510
[3872]	4.075658	5.953484	3.569524	4.666135	4.023884	5.583751	4.503196
[3879]	4.805916	5.453042	3.689004	4.538464	3.719680	5.456435	4.705202
[3886]	4.549066	5.615618	5.112562	3.804587	4.412944	6.839443	4.652770
[3893]	3.451666	5.365033	4.347894	6.888793	4.387665	4.848651	4.727291
[3900]	5.275309	6.530940	5.434885	6.554638	3.618129	4.698706	5.212170
[3907]	4.295105	5.281726	6.835812	3.310887	4.522783	3.977929	4.481174
[3914]	4.189415	4.094538	4.551101	3.277784	4.856801	5.802120	4.522346
[3921]	5.521265	5.423091	5.917753	4.561976	4.901239	6.123904	4.020142
[3928]	3.643920	5.857976	5.284167	4.152962	7.325623	3.782651	4.845303
[3935]	5.153092	4.696300	5.186107	4.045659	6.258325	6.486540	3.531553
[3942]	3.372956	5.542433	5.086505	4.600458	4.160358	4.451942	4.757016
[3949]	5.367772	3.166563	5.173789	5.793241	3.274401	6.367360	4.768981
[3956]	5.051345	5.159214	5.527666	4.806381	4.355054	4.973937	5.148876
[3963]	6.387239	5.819958	4.087502	3.907433	4.323348	5.473702	6.040083
[3970]	3.549695	4.088516	4.711822	6.553820	6.532024	4.173630	4.505600
[3977]	5.620113	6.194603	5.285864	3.999937	4.788503	5.031998	5.348181
[3984]	4.768427	4.465133	5.643194	5.936607	5.903530	5.597378	4.822462
[3991]	5.368601	4.901051	3.102013	5.695841	4.683029	5.381925	4.904041

[3998]	6.277937	3.246473	5.530346	5.357202	5.783801	6.450725	5.117677
[4005]	6.707616	4.319248	5.154648	4.444603	5.214584	4.555161	6.375752
[4012]	5.173906	5.689920	4.353535	5.111855	5.292221	4.553409	3.650543
[4019]	8.632921	3.815215	5.331321	3.585380	3.916641	7.798721	4.705071
[4026]	6.433558	5.269795	5.547720	5.162776	4.027405	4.527113	5.206539
[4033]	5.682147	6.069607	5.864261	4.697302	5.019810	2.989687	5.635259
[4040]	5.076081	5.018281	5.920581	5.011834	6.421590	3.218356	5.083019
[4047]	5.054787	4.970927	4.707009	5.167226	4.689839	5.693443	5.465451
[4054]	5.288041	3.803155	3.512804	4.743498	4.853761	5.814591	5.262010
[4061]	6.112420	4.910885	5.670722	3.347356	5.008125	3.767731	5.007419
[4068]	5.714159	6.428597	4.911630	5.478705	6.292956	4.871122	4.358870
[4075]	4.339664	4.417268	5.445396	5.359416	6.082544	4.135504	5.467511
[4082]	3.131808	6.002160	3.562293	4.839912	3.948324	5.680384	5.580877
[4089]	4.990553	5.542191	5.381668	3.939684	4.570360	5.788953	5.753795
[4096]	6.813320	5.139972	4.487415	5.751267	6.435165	4.564014	5.552504
[4103]	5.657609	6.482037	3.178913	4.021052	4.823161	4.014461	5.611679
[4110]	4.378815	6.078882	7.090421	4.007411	5.603211	5.754931	4.839350
[4117]	5.755501	5.748836	5.942237	4.147597	4.833029	4.005915	4.139487
[4124]	4.605229	4.328621	4.528935	4.722413	5.925157	3.864507	5.340215
[4131]	5.006582	4.577018	4.196052	5.323646	7.141227	5.250385	5.086009
[4138]	5.972351	4.350003	3.280228	5.316847	4.610352	7.326445	4.763955
[4145]	3.527614	4.342177	3.368619	4.622294	6.014950	4.837175	4.919167
[4152]	4.700550	5.552137	5.819224	4.704625	5.066444	5.098526	5.616207
[4159]	5.637444	3.313592	5.467815	4.808961	5.911666	5.959431	5.201218
[4166]	5.754535	4.479511	4.603998	5.478729	4.808716	5.658157	5.216877
[4173]	5.432433	4.028152	3.934117	3.892219	4.985118	4.142387	6.965370
[4180]	4.209240	5.739168	5.919377	4.642844	4.294240	4.325119	4.866450
[4187]	4.559806	4.033137	5.323867	5.540768	4.630408	7.342703	4.538116
[4194]	6.559238	5.833630	3.703292	4.589592	4.407971	4.830889	4.323329
[4201]	4.851006	5.275423	5.278026	4.933248	4.264197	4.341686	4.515771
[4208]	4.100756	4.466276	4.696227	4.055633	3.769624	6.740408	5.034811
[4215]	5.080788	4.713935	4.802682	6.716690	3.472058	3.489352	4.055337
[4222]	4.862465	4.199240	6.800977	6.923089	4.509995	4.230191	5.319731
[4229]	5.432372	6.458985	6.359500	3.068894	5.865034	6.360862	4.288161
[4236]	5.695320	6.839477	3.138036	4.385950	4.045765	5.724683	6.318641
[4243]	4.453663	4.574056	6.941355	4.714845	5.584786	3.393054	5.236369
[4250]	4.937039	4.224326	4.828344	6.230262	4.895085	5.563275	3.975446
[4257]	4.055703	4.835955	4.998197	6.413417	8.375525	6.412792	5.851524
[4264]	4.512630	6.301559	4.419707	3.921089	6.813866	5.084010	6.061194
[4271]	5.736507	5.169214	4.523192	5.517836	5.043400	4.399154	6.596748
[4278]	6.244393	5.971195	6.539689	3.838594	5.130406	5.438282	4.896151
[4285]	4.602576	5.342160	6.231780	5.521244	4.013379	4.604857	4.202945
[4292]	5.149617	4.181675	3.532086	4.534505	5.508132	4.369928	4.200093

[4299]	2.704181	6.513267	4.054566	6.002645	6.434314	4.719841	4.905243
[4306]	4.643810	3.664890	6.483649	4.955712	5.005636	4.857024	6.402292
[4313]	5.380909	3.810922	4.353057	3.186638	3.974326	5.004025	3.622747
[4320]	4.936483	5.335673	4.356024	5.408565	5.228555	6.261521	4.279252
[4327]	5.832813	4.954068	4.784960	6.321232	4.616557	4.453566	5.249535
[4334]	4.767656	3.406435	5.207128	5.979312	3.962239	5.091538	4.962568
[4341]	4.672264	5.087828	4.416212	5.013628	5.157904	3.845744	5.410601
[4348]	4.952528	6.296500	5.257476	5.806960	5.445324	5.103127	5.778455
[4355]	5.174116	3.867047	5.800481	5.705542	5.108551	5.278041	3.504045
[4362]	5.544977	3.757153	8.440960	3.342454	4.198676	4.609267	5.364216
[4369]	5.907022	6.441884	5.854699	4.808995	4.067056	4.298387	4.380846
[4376]	5.213400	4.363768	3.740506	4.922633	6.398013	4.695449	6.454074
[4383]	6.206233	5.317572	5.466087	4.635711	2.985611	4.478802	6.277720
[4390]	5.316983	4.084750	4.687483	5.096591	6.390648	3.481095	3.460909
[4397]	4.526285	4.124460	5.048386	5.766150	4.848577	5.605702	5.434382
[4404]	5.642020	4.192667	5.179096	6.914293	3.712840	4.462285	4.633026
[4411]	5.244993	5.280449	5.323915	4.767155	4.924212	4.941873	5.276320
[4418]	5.930790	3.275967	4.267100	5.525134	5.825433	4.424667	5.419013
[4425]	5.804256	5.006445	5.285651	3.970213	5.509253	5.976068	5.807687
[4432]	4.298481	3.590303	3.526997	4.775181	5.218086	3.867950	4.968839
[4439]	4.076399	5.230409	4.217513	3.147773	5.065039	4.537955	4.727592
[4446]	4.280839	6.721810	5.528618	5.349495	4.261884	5.648670	5.227254
[4453]	4.833616	6.621037	6.066005	4.601830	4.737136	6.030387	5.367176
[4460]	4.769582	4.789009	4.989707	4.458216	4.852377	4.643128	3.860638
[4467]	3.623826	5.207968	6.195399	4.864213	4.724231	6.232605	4.625023
[4474]	3.936866	4.632550	4.105931	5.068056	5.763687	5.416557	5.789889
[4481]	4.975527	6.936074	4.688214	4.771633	5.032725	4.440659	4.965142
[4488]	4.161113	5.349378	5.595147	5.126526	5.257067	4.491106	4.802597
[4495]	4.228075	5.078067	4.401610	5.697087	4.110379	5.014851	4.362455
[4502]	4.880273	3.903768	4.401971	5.873520	4.533685	3.752801	4.493824
[4509]	5.105523	4.147542	4.325834	5.381523	5.114985	5.319989	5.372265
[4516]	5.607976	4.588068	4.923073	4.434192	3.752097	5.521842	4.791767
[4523]	3.234703	7.186803	5.269890	3.368323	4.305926	5.912956	6.094839
[4530]	5.706215	5.666670	5.476960	5.196275	5.814009	5.754839	4.492060
[4537]	5.368051	5.349684	4.379864	4.423496	5.156567	5.854924	5.709244
[4544]	4.690384	5.724562	4.604804	6.026574	4.187234	4.833699	4.101575
[4551]	4.242251	4.129180	3.817667	6.952481	6.708650	5.543753	5.315644
[4558]	4.546848	6.287752	4.078678	4.811900	5.107782	4.250383	5.015781
[4565]	3.570681	5.254699	5.392415	4.588084	5.181613	7.015308	4.513461
[4572]	4.875857	4.925162	4.201637	5.435692	5.073295	5.721398	4.405572
[4579]	4.610648	3.782884	4.719924	4.171491	5.118702	5.249063	5.229298
[4586]	4.426039	4.228383	5.505817	5.002856	5.334904	5.242046	5.536723
[4593]	3.877991	4.473145	7.480088	7.566378	4.237698	5.015734	5.709891

[4600]	5.233638	5.078367	3.464961	6.853132	4.168396	3.922408	5.574285
[4607]	3.211730	5.227756	3.226019	4.878858	6.862009	5.892709	4.715835
[4614]	4.781408	6.555077	4.560326	4.024977	5.338161	4.227644	5.033845
[4621]	4.456676	4.589474	5.639316	4.947037	4.646824	5.442439	3.618454
[4628]	4.769747	6.605862	4.307572	4.481695	5.811550	5.222058	4.870656
[4635]	3.888149	5.025779	5.023956	4.835473	3.395646	4.522117	4.706764
[4642]	4.956859	5.187104	5.687791	4.589297	6.529127	4.320483	8.139813
[4649]	4.857886	5.216312	3.630743	4.609350	4.120692	5.696796	3.301175
[4656]	4.708740	3.567646	3.756667	4.797285	5.328388	4.688807	6.424872
[4663]	4.318487	6.240464	5.602285	5.468387	4.992956	3.609920	4.288437
[4670]	5.137571	3.921779	6.140877	5.260911	4.546614	4.857139	5.792077
[4677]	4.229375	3.903973	4.713618	4.339549	4.398146	5.204001	3.969032
[4684]	4.079055	5.767025	3.875597	4.356064	4.899810	5.358400	7.853667
[4691]	5.540979	4.515506	4.628303	4.319859	5.358858	4.940043	6.232429
[4698]	4.985437	5.390460	6.094209	6.111634	6.968935	7.245347	5.728177
[4705]	3.591067	4.676121	5.265499	3.719475	6.704720	5.690454	4.354297
[4712]	6.958785	5.640016	6.810069	5.792023	5.224909	3.904309	4.202318
[4719]	4.486301	3.154508	3.731999	4.408768	4.907766	4.488460	4.406047
[4726]	4.161649	5.766468	4.502054	4.873177	5.176236	3.882546	3.767447
[4733]	7.681419	5.860516	4.802382	4.615357	4.390123	5.306773	4.845390
[4740]	3.999392	4.051646	5.699145	5.030902	4.580002	4.810106	4.073051
[4747]	2.982728	4.418423	4.937675	4.773539	3.950554	5.404125	4.428469
[4754]	5.229966	3.901795	5.103217	5.051030	3.810635	4.889995	5.455101
[4761]	4.155893	3.970839	6.151851	5.618466	4.225556	8.843389	5.026224
[4768]	3.782416	4.358669	5.813110	4.389974	4.165811	6.171210	5.514276
[4775]	5.208703	5.387274	5.515355	5.929687	5.456929	5.704203	6.329705
[4782]	5.207247	6.481352	3.372554	5.024901	4.570158	5.774699	6.579395
[4789]	5.409181	5.063026	4.151675	3.243577	4.256405	4.252849	6.906657
[4796]	4.232445	6.627339	5.345078	5.441669	5.658927	6.045569	5.273350
[4803]	5.084961	4.559595	5.575618	6.670920	4.636385	4.641564	5.230444
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[4817]	4.314619	6.080047	3.388532	5.846499	5.311135	3.725697	3.603116
[4824]	4.633638	4.161889	4.998426	4.499155	6.572989	4.789248	4.789173
[4831]	5.291749	3.162905	5.257250	4.829795	7.983494	3.788684	3.885557
[4838]	4.570856	5.854662	6.521030	5.670029	6.977380	5.418845	5.055633
[4845]	6.583922	3.999741	5.016847	4.842964	4.603870	5.273278	4.797984
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[4859]	5.378756	4.393834	5.020242	5.057129	4.678652	5.394866	5.096333
[4866]	4.839654	4.567781	4.122037	3.596150	7.076660	5.625163	3.444947
[4873]	7.637919	5.021344	4.956747	4.527144	5.657696	4.390836	4.148190
[4880]	6.767559	4.060608	3.691079	3.818111	5.471457	4.799894	5.538770
[4887]	6.004092	3.659993	5.796318	3.111888	4.019451	5.251507	5.131258
[4894]	4.618944	4.803557	3.920794	4.830928	4.945980	4.567410	5.919168

[4901]	4.661972	4.005105	4.968353	5.069418	4.211314	5.975821	4.985704
[4908]	5.467737	4.649723	4.796088	5.573774	6.100984	4.343817	4.808284
[4915]	5.163888	2.927793	5.293282	3.933551	6.097647	5.325259	4.152429
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[4936]	4.214930	4.901371	5.419178	5.166646	4.333966	4.369701	5.435006
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[4950]	4.526849	4.721159	4.559443	7.908435	6.176312	6.829382	6.941010
[4957]	4.609177	4.247292	5.440212	6.138038	5.829811	5.320178	5.491557
[4964]	6.429014	4.657192	5.004011	6.773854	5.445713	3.351431	5.700839
[4971]	4.457863	4.998373	7.114842	4.288406	4.979465	5.132458	5.526520
[4978]	4.041793	4.956847	4.006094	6.580681	3.452841	4.825693	5.320684
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[4992]	4.672460	4.740628	4.562416	3.517683	4.781484	6.726788	5.198224
[4999]	6.747868	5.745569	3.601240	4.954968	5.039515	8.113482	5.214280
[5006]	5.642559	4.398635	4.849357	5.765842	5.255191	3.734231	4.565817
[5013]	4.768561	5.095685	5.234741	5.906460	5.122486	4.581448	3.815967
[5020]	5.635645	5.523569	5.465713	3.649551	6.044132	5.155491	5.383517
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[5034]	4.924050	4.287913	3.614713	3.943950	3.923268	4.650397	3.977676
[5041]	7.094961	5.551337	4.559582	5.896921	4.611705	5.036491	5.136441
[5048]	5.329207	6.433846	4.446788	4.039833	4.418969	4.787673	3.649085
[5055]	6.054343	6.188869	5.921568	3.225413	5.525529	5.561611	3.570741
[5062]	4.060525	3.613834	4.282015	5.251353	4.540180	6.922557	3.899199
[5069]	3.799025	3.752708	4.626635	4.348923	5.597121	5.681149	5.262456
[5076]	4.241329	4.568948	5.104740	4.693852	6.550870	5.278016	5.183735
[5083]	5.331799	5.170507	5.166156	4.100121	4.941810	5.410214	4.399974
[5090]	6.778261	4.171529	5.689864	4.469893	5.709223	6.168593	3.255198
[5097]	3.926969	5.374993	5.913435	4.170417	4.760531	5.189641	4.376026
[5104]	3.917653	5.149797	3.697753	4.526908	6.110536	4.948498	5.318143
[5111]	5.685972	4.404260	4.553792	6.408473	5.856176	4.152203	4.603702
[5118]	4.770889	4.684358	4.000769	4.295885	4.475524	4.781840	4.429311
[5125]	7.300106	3.986062	5.723902	4.969172	4.383486	6.003172	4.377454
[5132]	7.017700	4.790353	5.621772	6.198342	5.006430	4.814926	4.305891
[5139]	4.464837	4.699409	3.442828	3.680113	5.707554	4.200886	5.773332
[5146]	5.341545	7.162591	6.021595	3.909520	4.300831	5.439193	6.601272
[5153]	5.266643	4.743915	5.651318	7.316629	4.842573	3.114055	3.869915
[5160]	4.790953	3.777854	6.813142	4.415215	3.893098	4.289139	5.477892
[5167]	4.722326	3.219004	5.737153	5.098197	4.515808	4.948089	5.823182
[5174]	5.946374	5.759555	6.040668	4.973721	6.044740	4.535255	3.660008
[5181]	4.257353	3.976310	5.130855	5.262293	6.837954	5.662690	5.099019
[5188]	5.838472	4.202138	5.256718	4.998202	4.437620	5.574984	3.843203
[5195]	5.884863	3.891305	4.105760	6.047226	5.567280	6.870880	4.506923

[5202]	6.951234	5.262359	5.638174	5.213586	5.389612	5.292736	3.922765
[5209]	5.231021	4.419423	4.995903	6.517916	4.724567	4.563793	3.980377
[5216]	6.153950	5.014922	4.884736	4.086691	5.582011	6.287539	5.734956
[5223]	5.176991	5.061953	4.199480	5.587368	4.057066	3.986417	5.068301
[5230]	4.720545	5.623766	4.924166	6.241172	4.468407	6.034446	4.140863
[5237]	4.551336	4.580414	5.052315	4.052570	6.413943	6.431410	7.660577
[5244]	4.139710	4.489346	3.899144	5.727069	5.243755	5.864965	6.062257
[5251]	4.072081	3.833374	4.491533	4.928737	3.858712	4.349001	6.178554
[5258]	5.342644	5.583619	5.656456	3.303136	5.183935	4.662401	5.882494
[5265]	5.556918	6.607941	4.726023	5.665898	5.732874	5.341738	5.580167
[5272]	4.570562	4.656082	5.604600	5.219084	6.383742	6.466551	4.504023
[5279]	2.700388	5.208561	6.202809	5.130230	5.096222	7.116136	5.364701
[5286]	6.030873	4.036969	4.887205	6.254916	4.844854	4.611380	5.837190
[5293]	5.177473	5.321199	3.659010	4.404473	5.357270	4.654071	5.070859
[5300]	5.472452	5.435639	5.138828	4.851541	6.423832	5.045285	7.029061
[5307]	7.363305	4.764147	4.752288	3.369822	7.192447	5.145340	4.375267
[5314]	3.677776	4.545146	5.804255	5.485005	5.462440	4.109424	5.734749
[5321]	5.766652	5.196280	4.369511	6.807331	5.221792	7.158388	5.393027
[5328]	4.401876	6.242176	5.542869	3.027729	4.881546	5.628357	6.184135
[5335]	5.099178	4.488982	5.298787	5.868960	5.104060	4.204005	5.212366
[5342]	6.434945	5.418979	3.937710	4.990755	6.615816	5.210612	3.850385
[5349]	5.059866	5.250448	3.806318	5.181496	4.572780	5.130941	4.201655
[5356]	5.832192	3.738864	4.626460	6.784095	6.361228	4.514858	5.316305
[5363]	6.059985	4.151388	4.252208	5.684606	4.508876	5.575095	4.752001
[5370]	5.051839	5.222896	7.172541	4.440208	4.980447	5.388444	4.319247
[5377]	4.182356	3.833278	5.480113	6.591407	4.671422	4.458886	4.630849
[5384]	5.206148	6.067949	6.450005	4.880959	4.277743	4.357960	5.893473
[5391]	5.863357	4.715311	4.386146	5.246938	3.786206	4.693738	4.701165
[5398]	3.026371	4.088222	5.371893	4.318151	6.064446	4.240975	4.642169
[5405]	4.403189	5.346114	4.392551	4.528994	5.314347	4.046785	6.656867
[5412]	4.193346	5.971624	5.651930	6.738223	5.374964	4.821254	6.979787
[5419]	3.690323	5.965799	4.920336	4.252534	4.743314	5.177384	4.815415
[5426]	5.969217	4.839429	4.296562	6.158538	4.480000	5.795688	5.451923
[5433]	4.401730	6.642890	3.306581	4.459582	6.274093	7.411506	4.979466
[5440]	5.380765	5.950521	7.054859	5.145103	3.938578	3.751162	4.115021
[5447]	4.226169	5.609221	4.376048	5.843303	5.544597	4.976206	5.934957
[5454]	5.435283	3.111022	4.122478	3.707882	5.375651	3.368250	7.703865
[5461]	7.121863	6.014229	3.087605	4.400802	3.943679	4.996408	4.521314
[5468]	4.375725	5.027142	3.710227	3.854676	4.973616	6.847815	4.164461
[5475]	4.124798	4.745337	5.565840	4.928610	5.482985	4.527292	6.229426
[5482]	5.174082	3.777623	3.372206	6.764347	4.284935	4.834153	5.012831
[5489]	6.064634	4.681319	5.384244	5.603250	5.021598	3.726809	5.449390
[5496]	3.959755	4.794578	4.329922	5.272092	4.548318	5.046425	3.952666

[5503]	4.001435	5.340500	5.070072	5.590767	5.829088	4.440760	4.567436
[5510]	5.003253	5.367889	4.245955	5.583324	5.096632	6.232061	3.888569
[5517]	5.260249	5.265181	5.842204	4.010285	5.575985	4.105822	4.266550
[5524]	4.600787	4.568438	5.410833	6.183463	5.327212	5.413670	5.423052
[5531]	4.844035	6.133372	4.240235	6.517691	4.980863	3.366994	6.857582
[5538]	4.560743	4.992590	4.616057	5.524943	5.796954	6.941795	4.743034
[5545]	4.506506	4.767344	4.464171	6.636613	6.289561	3.975352	6.935400
[5552]	4.443095	3.619454	6.122552	5.275042	4.865653	6.779773	6.561567
[5559]	4.743072	5.446839	6.600145	4.812819	4.237004	4.650359	6.028677
[5566]	4.811978	6.154696	4.070421	4.698002	4.774070	4.608190	6.498080
[5573]	6.922561	4.550585	6.289390	4.943836	5.206385	5.165129	6.692643
[5580]	4.541849	5.017148	5.673734	4.530658	3.076235	5.594889	4.983224
[5587]	5.764997	3.691731	5.610485	5.372062	4.393407	3.860500	3.360912
[5594]	5.029551	4.767994	4.166365	4.564627	5.122743	4.250782	4.309413
[5601]	4.813026	5.043094	4.315403	6.599299	6.100244	6.042479	3.608817
[5608]	5.889863	4.348971	4.573803	5.021129	4.491956	3.787622	5.068285
[5615]	6.328014	5.703097	3.755394	5.276714	5.416069	5.361420	5.131036
[5622]	4.685417	4.716535	4.597017	3.850951	6.338787	4.458758	5.615103
[5629]	4.935253	3.836766	6.581888	6.495159	4.617164	4.415246	5.215547
[5636]	3.054365	3.908259	5.403789	4.758780	5.572775	3.973090	4.096494
[5643]	5.054868	5.350863	4.941891	4.846944	3.714156	5.489036	3.708149
[5650]	4.767874	4.516938	4.695340	5.426406	4.267726	5.069132	5.488712
[5657]	4.976933	4.943426	6.818044	5.201340	7.141769	5.081911	5.201236
[5664]	4.686725	5.702999	5.958056	3.986502	5.986223	5.926109	4.115149
[5671]	3.809372	5.338004	4.825258	6.831077	4.609417	5.628404	7.411856
[5678]	6.439096	6.184490	5.055035	4.860758	5.599307	3.769351	5.011224
[5685]	4.348296	6.174252	5.073314	3.773614	4.995946	6.120789	4.950990
[5692]	6.158105	5.252674	5.864368	6.570877	4.578957	6.679149	6.200596
[5699]	5.586749	4.734991	5.086080	5.709738	7.076578	5.394612	6.145015
[5706]	5.544210	5.231753	4.982921	4.869072	6.888115	5.521412	6.424737
[5713]	4.517959	6.083378	6.153086	7.976495	6.998738	3.814375	4.691292
[5720]	6.960740	5.831582	4.559353	4.365918	4.752152	4.088483	3.884909
[5727]	5.250830	5.095947	4.886309	6.137448	3.686598	7.210077	4.494445
[5734]	5.479644	4.061580	4.610285	4.269487	3.342402	3.642346	4.492136
[5741]	4.853857	4.267168	5.045797	4.786376	5.290228	5.109254	4.131345
[5748]	3.137981	4.653890	5.485649	4.571290	5.234763	5.264915	7.659921
[5755]	4.947438	5.485524	4.866579	5.216997	5.090075	6.470020	4.827927
[5762]	4.202321	4.674012	4.273238	4.405199	3.747804	4.978060	3.724998
[5769]	4.559857	4.457762	3.979544	4.555034	4.493922	3.757038	5.489696
[5776]	4.624782	4.314128	5.607392	4.876000	4.883980	5.138145	3.244289
[5783]	5.498124	4.092393	4.612502	6.217451	4.713061	5.431890	3.480162
[5790]	5.818137	4.876849	7.091479	4.615869	4.251421	4.605982	5.423399
[5797]	3.351963	8.209509	6.583119	5.947466	5.612846	4.562984	4.895921

[5804]	7.160117	3.412590	6.157671	5.052963	5.659668	5.041063	6.855427
[5811]	6.270803	6.634556	5.151415	3.919594	5.363888	4.740343	6.098651
[5818]	4.668563	4.964559	4.880623	5.155623	6.545674	5.689727	5.903334
[5825]	4.997245	4.118174	5.573146	2.875288	5.252288	5.795009	4.804243
[5832]	4.894513	4.436633	4.762781	3.651928	3.575656	7.854406	4.761227
[5839]	3.082547	4.877195	4.407374	4.304842	6.333080	6.843760	4.122266
[5846]	4.131702	6.085316	4.957735	4.824779	5.019407	4.022912	4.507466
[5853]	4.537269	4.135751	5.704272	4.965992	7.081533	5.186932	5.406390
[5860]	4.821008	4.080664	4.282413	4.956491	6.759169	5.193904	4.700454
[5867]	5.742810	4.328447	4.759543	3.510673	4.401565	4.715174	4.194242
[5874]	4.963006	4.918321	4.261509	4.405066	5.391112	4.936245	3.379333
[5881]	7.104255	6.130949	5.046115	4.194735	4.414179	4.223250	4.735487
[5888]	4.616609	4.880684	5.469173	4.841216	5.064053	3.888179	4.547180
[5895]	5.641702	4.562986	4.260158	5.370541	5.609933	4.950812	6.153810
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[5909]	4.307032	4.548259	6.153364	4.626509	5.123813	5.804007	4.140081
[5916]	3.853193	6.588979	4.943247	5.005641	4.999323	4.100349	4.339581
[5923]	5.139081	4.722813	4.763470	4.874090	5.704961	4.284647	3.736001
[5930]	3.035979	5.894704	5.046209	5.131639	6.008436	5.336510	4.064991
[5937]	4.714096	5.178243	4.364973	4.856147	4.932193	5.024523	4.152241
[5944]	5.383884	4.658293	4.586712	3.898358	6.243347	4.481928	6.388017
[5951]	3.964609	4.546303	4.396409	6.725371	5.389334	5.429097	4.248470
[5958]	5.924501	6.137738	6.208061	6.498273	6.135042	4.040674	4.310411
[5965]	6.703557	8.131912	3.649515	6.477243	4.009932	6.670269	3.867916
[5972]	3.538212	3.347064	4.725031	5.217362	4.748471	5.101256	6.049559
[5979]	4.329549	4.244529	4.992007	3.898901	5.612173	5.855693	4.789995
[5986]	4.509131	4.245508	5.400587	4.120078	4.913627	5.271013	5.269061
[5993]	5.528063	6.509024	5.089342	5.373820	4.656487	4.202478	4.733378
[6000]	4.663069	6.253838	6.338288	4.975933	4.950507	5.260470	4.872971
[6007]	5.052709	3.941404	5.668081	5.881261	5.488890	4.128543	4.146138
[6014]	4.302397	4.296821	4.706346	6.273194	6.135658	5.521413	5.400465
[6021]	4.513588	3.150240	5.365400	3.952851	6.248501	4.460305	4.007909
[6028]	4.090489	4.238056	3.863043	3.765597	5.987078	5.143944	4.683312
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[6042]	4.934003	4.570297	5.959501	5.565084	3.794427	4.537544	4.819904
[6049]	4.084353	4.438326	4.312886	4.763753	3.844668	5.369005	4.241586
[6056]	4.466511	5.676663	4.990219	6.037846	4.727334	5.321806	7.124567
[6063]	4.072519	4.880456	5.385851	5.061451	4.814084	4.299514	5.663110
[6070]	7.361185	4.445374	6.607347	5.611125	4.315089	5.295660	3.795144
[6077]	5.062096	6.209844	5.739547	5.602641	4.323038	5.196940	3.460068
[6084]	5.177513	6.040704	3.558058	5.253697	5.574974	5.838078	4.133250
[6091]	4.702186	4.464259	3.846387	4.530094	5.054303	5.748248	4.058495
[6098]	4.301884	4.117306	5.407292	4.534674	4.214580	2.942526	5.447418

[6105]	4.915996	4.498199	4.607013	5.764229	6.210105	4.497431	3.962808
[6112]	4.574901	4.597001	4.639850	5.369396	4.460069	4.818827	5.367835
[6119]	4.343550	5.241832	6.027207	4.658873	5.937168	4.665657	3.673952
[6126]	3.877361	5.558088	4.619001	5.058997	6.576427	4.430419	4.316795
[6133]	4.485394	4.505095	5.975205	5.999572	4.330252	5.311901	4.288797
[6140]	5.368861	4.392169	5.093613	4.892287	5.048106	4.613274	4.574487
[6147]	4.310350	6.228018	5.933309	4.124250	4.655029	7.059937	4.946659
[6154]	5.458091	5.080932	4.503813	4.146102	5.406489	5.923155	5.388400
[6161]	4.718724	5.388792	5.120584	6.540142	4.480366	4.107431	4.284305
[6168]	6.465394	4.908198	3.335992	5.970617	3.645047	5.247346	4.922203
[6175]	3.689277	4.473884	4.424616	5.118823	5.035875	5.102872	5.909976
[6182]	4.439796	3.747638	4.596729	3.779517	5.316282	4.695176	4.443208
[6189]	4.049411	6.244255	5.643498	4.431401	4.862286	3.970828	4.189234
[6196]	4.784006	4.412888	4.633823	6.564801	4.098945	4.607353	6.684512
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[6210]	5.910791	3.899681	4.421092	4.413587	5.648286	7.061714	6.385028
[6217]	4.552664	3.460385	4.540616	4.751843	5.151512	5.323447	5.327999
[6224]	5.284251	4.745733	5.399462	4.116644	5.128750	4.426815	4.417106
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[6245]	5.638201	2.758063	5.154740	5.299880	5.803274	6.546703	6.596623
[6252]	4.587377	5.591574	4.782125	5.265002	4.254519	4.118821	4.973780
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[6280]	5.964581	5.663694	5.907749	4.152661	4.300533	5.167411	4.985477
[6287]	5.175475	4.369390	3.865226	4.715456	5.846003	5.363141	5.385277
[6294]	4.754668	3.510415	5.171414	4.514045	6.368562	4.490031	4.059392
[6301]	5.937770	5.893666	6.454416	4.835206	5.339079	5.578176	4.946247
[6308]	4.608409	5.508148	5.367386	5.000822	4.120901	5.032845	3.412721
[6315]	4.790894	5.298785	3.112174	5.961277	4.867407	4.791398	5.607924
[6322]	4.860517	4.869892	4.766447	3.889193	5.017571	4.608604	4.803873
[6329]	6.104037	3.605161	5.403437	4.421308	5.231754	4.648573	5.112170
[6336]	4.141917	4.043136	3.213816	4.447085	5.272341	5.718887	4.423585
[6343]	5.987070	3.746691	4.494903	4.264655	4.593615	4.648412	4.154339
[6350]	3.591235	6.075400	5.637456	5.884063	5.401773	6.029809	6.048652
[6357]	4.532305	4.326225	4.553497	3.686027	4.497622	4.442877	4.260394
[6364]	5.012439	6.838417	4.591851	4.320601	5.311788	3.848362	5.223324
[6371]	4.754680	5.043178	4.474432	5.839573	4.058302	6.049719	2.963637
[6378]	6.155836	5.804889	5.610726	4.889676	4.918733	3.248768	3.439320
[6385]	3.632139	4.131886	4.594251	4.202322	7.290472	5.060149	4.206831
[6392]	4.737224	5.374996	5.845883	4.772747	4.348434	5.023570	6.124452
[6399]	5.495431	5.444414	4.012396	6.229231	4.777939	5.594101	4.408453

[6406]	3.789741	5.672922	4.458663	5.523055	3.852835	5.610384	5.851037
[6413]	6.108639	5.364160	4.598482	5.520591	3.890494	5.098556	6.049467
[6420]	5.080930	5.897436	6.834846	4.797296	4.177493	4.186553	4.097467
[6427]	5.511555	4.740613	5.580961	5.455766	6.025876	5.949641	4.770888
[6434]	5.020714	4.280636	5.363049	5.405296	5.414390	4.576292	4.208709
[6441]	4.472176	5.626206	6.370226	5.481133	5.359343	4.584023	5.654617
[6448]	4.920026	4.311413	5.793931	3.685714	5.951912	3.405836	7.093886
[6455]	3.995501	4.124078	4.850739	5.606556	5.524894	5.280673	5.034469
[6462]	4.950410	3.666292	4.650075	3.391924	6.377679	6.998361	4.212265
[6469]	6.530946	5.829969	5.686667	3.718969	4.765149	4.061948	4.523100
[6476]	5.387471	5.092134	5.166980	5.448750	3.513516	4.548512	4.781280
[6483]	4.646164	7.032317	5.567034	4.663486	4.255438	5.959388	4.651678
[6490]	4.683581	4.086436	3.839367	5.726998	4.375151	5.482102	5.297237
[6497]	5.283133	4.504724	5.311719	5.271735	6.340545	4.619990	5.013091
[6504]	4.212071	3.868995	5.914649	4.673967	4.527590	4.117777	6.800000
[6511]	4.338865	5.001546	4.914169	5.649322	6.058834	6.062278	4.957433
[6518]	4.173405	7.197248	5.603310	5.530447	3.433455	4.582034	6.547803
[6525]	5.066516	5.824054	5.114903	4.515076	4.735872	4.339059	4.087534
[6532]	4.042603	3.768900	5.768103	5.183732	4.926231	5.534733	4.684611
[6539]	5.311348	5.971835	5.605842	6.635685	5.541747	5.039902	5.494236
[6546]	4.045299	4.810400	4.629082	5.107222	4.361759	3.939806	5.373575
[6553]	7.133245	6.064822	5.858556	5.957860	4.975189	5.968502	6.944518
[6560]	4.479358	4.476052	6.376916	4.766584	5.451033	4.571383	5.490259
[6567]	4.965137	4.328477	6.137349	4.932490	3.810563	4.090596	4.489096
[6574]	2.931886	5.239656	5.591606	5.659863	5.596574	4.499897	4.759226
[6581]	5.397071	4.731060	4.841877	5.963439	5.550401	5.061994	3.960960
[6588]	4.615543	4.506844	5.883673	5.912541	5.838003	4.293660	4.753751
[6595]	5.086076	4.508920	5.253454	4.976307	4.603261	4.411269	5.016715
[6602]	3.744334	4.911877	5.565118	4.603084	4.614062	5.085943	4.652310
[6609]	4.551072	5.465526	4.548130	4.333203	4.690453	5.754335	5.330535
[6616]	5.286177	5.035621	4.672542	5.018400	4.775909	5.577394	5.807316
[6623]	3.333357	5.437029	3.139073	5.802282	5.678230	4.276967	5.025534
[6630]	7.075440	5.167680	5.197739	5.394580	3.139619	4.556957	4.686264
[6637]	4.967378	5.031036	4.531959	6.386957	5.329449	5.050359	5.086922
[6644]	5.894444	3.668668	5.395332	3.973130	6.142092	4.262485	5.481926
[6651]	5.325029	4.778777	4.339772	3.787266	3.461811	3.930796	5.111377
[6658]	3.445556	4.930293	5.806280	6.585363	6.286451	5.932588	5.248553
[6665]	6.212612	6.741688	3.842151	6.018394	5.876391	4.027112	6.095967
[6672]	4.312117	3.900378	7.037595	3.867080	4.893816	6.413980	4.693484
[6679]	5.498350	4.427674	4.002400	4.631355	5.117952	5.271276	4.108603
[6686]	5.849277	6.730932	4.743907	5.589803	2.794427	4.835872	5.183868
[6693]	3.323608	4.733536	4.871963	3.899459	3.547841	3.198270	5.325364
[6700]	6.067435	4.483899	3.695276	5.390263	5.713230	4.586342	3.940454

[6707]	4.283802	4.458017	6.094846	5.757622	4.506410	3.721538	5.888231
[6714]	5.009339	5.959992	4.705544	3.901730	4.134279	3.096932	5.709180
[6721]	6.166158	4.313060	5.234665	4.016055	4.834475	4.055899	3.958906
[6728]	5.012886	4.754791	4.219730	3.638301	4.984803	5.064578	4.497458
[6735]	3.716815	4.810176	5.105380	3.778125	5.517059	5.336970	6.006729
[6742]	3.257753	5.058301	5.270474	6.360230	5.478607	4.888722	5.695423
[6749]	4.156593	5.598934	4.461790	4.772192	6.808282	5.388063	5.488110
[6756]	4.544118	5.045391	5.119320	4.530929	3.707308	7.348920	5.212676
[6763]	4.401913	6.033963	3.844250	6.228765	5.200148	5.170828	6.007936
[6770]	5.623985	5.609707	5.423572	5.573397	4.284175	4.346650	4.537605
[6777]	5.657966	5.204517	5.501594	5.352741	5.259407	4.325159	5.524468
[6784]	5.977031	4.336176	4.405168	4.264498	3.673269	4.406170	6.585583
[6791]	5.616254	4.499604	6.427336	5.121233	5.391435	5.459890	4.387106
[6798]	4.516493	4.585658	4.284637	4.027334	6.114967	4.317864	4.815793
[6805]	7.590669	6.147723	4.528751	5.795596	5.564163	6.845410	4.014736
[6812]	5.660189	4.442751	4.878877	4.243055	4.778971	5.078817	5.366120
[6819]	4.302002	4.318819	4.662297	3.973891	5.246142	5.136345	4.840934
[6826]	6.109469	2.919076	5.379882	2.906281	4.973665	4.536622	4.164043
[6833]	5.730095	4.779660	2.764590	6.620075	4.676329	5.417730	5.924716
[6840]	4.104862	4.824951	6.355272	5.418918	4.135597	5.370242	4.299284
[6847]	5.674600	5.699213	4.020733	4.132729	4.716565	6.680185	5.918442
[6854]	4.718635	3.651152	4.954899	6.082207	3.953388	5.261968	4.845678
[6861]	5.533316	4.934507	5.198611	4.965562	6.258170	3.865022	3.505629
[6868]	5.324937	5.711228	5.046898	7.335783	3.965298	4.006146	4.041043
[6875]	7.651149	3.684400	3.277798	4.886633	6.095159	5.652674	4.287310
[6882]	6.252192	4.166799	3.793717	3.035961	4.006417	4.455016	4.923534
[6889]	5.887710	3.878439	5.462483	6.044659	5.575318	4.791622	4.487293
[6896]	3.361056	5.732713	5.122145	5.134482	5.766321	4.576610	4.884993
[6903]	6.669775	4.054382	4.460237	2.878168	5.752271	5.664361	4.796075
[6910]	5.852007	3.056982	4.873377	4.754083	3.776756	4.588007	4.439805
[6917]	5.937848	4.443489	4.732146	5.479338	4.544284	6.551055	5.606297
[6924]	3.872115	6.789940	4.123187	5.545510	4.279343	5.330962	5.740623
[6931]	6.180284	4.730122	4.762050	5.044393	3.710965	5.190332	6.532632
[6938]	5.200284	4.338289	4.304281	5.549999	4.917502	5.139616	5.951149
[6945]	4.859275	4.718059	4.836262	5.411385	4.385735	5.107086	5.171672
[6952]	4.127193	5.895679	4.948915	4.425789	5.829620	4.038528	3.996849
[6959]	4.602522	4.110354	5.966184	4.207521	5.127062	4.750050	4.176492
[6966]	5.092914	4.974240	4.482102	6.172921	4.231252	3.715895	5.290060
[6973]	7.416017	3.779208	5.290686	5.245783	6.073308	5.300506	4.489779
[6980]	5.576644	6.366235	3.386913	4.322740	4.546760	5.461576	6.284635
[6987]	4.769457	5.035163	1.905667	3.800547	3.784429	6.130587	6.523709
[6994]	4.202348	4.996830	5.312057	4.977724	5.530848	4.577029	4.630228
[7001]	6.694406	4.436668	4.973958	4.491461	5.682392	7.049504	3.699914

[7008]	5.137117	5.442905	4.758672	4.147865	5.227206	4.703270	4.444771
[7015]	4.252830	4.831337	5.044579	3.198442	4.483132	5.464630	4.224295
[7022]	4.347040	3.791452	5.291346	6.839513	5.852625	7.956108	3.978071
[7029]	4.614437	5.557347	4.290616	5.022892	5.391402	3.558951	4.900765
[7036]	4.766739	3.482247	4.054466	4.867920	5.532726	4.109332	3.376894
[7043]	5.435721	5.552080	5.989934	6.050531	6.191470	4.751311	3.801493
[7050]	6.618746	4.425907	5.794249	5.300124	3.869030	5.230550	5.936913
[7057]	4.184244	5.959026	3.294935	5.382391	6.093968	4.827160	6.945422
[7064]	4.904263	6.107519	6.465347	3.919071	4.282212	4.532915	5.245344
[7071]	4.782791	6.064086	6.518772	6.338454	4.679450	4.977536	4.239209
[7078]	5.171694	4.579377	4.715454	5.118417	5.817795	6.970830	4.363867
[7085]	4.449013	5.988859	4.801539	4.469353	5.261705	3.495222	3.514842
[7092]	5.667470	5.242686	5.384198	5.593058	5.279527	4.941067	5.116986
[7099]	5.265389	4.026162	3.575980	6.933804	4.672241	5.657021	4.223530
[7106]	4.811444	4.073496	4.697797	3.857903	6.865527	5.389090	5.591533
[7113]	5.441797	8.253732	6.124577	4.424144	5.182306	6.140493	4.844444
[7120]	4.284738	5.404655	7.923420	6.895126	5.178518	4.704760	5.356907
[7127]	7.119058	4.234356	4.397560	6.033723	4.017196	3.070724	6.990890
[7134]	7.970122	4.701722	4.744018	4.419282	4.560243	3.932426	4.745599
[7141]	6.536434	3.552744	4.900526	4.899262	5.102254	4.592571	5.126876
[7148]	4.447236	3.910259	4.392536	5.676538	4.946704	4.761946	5.463563
[7155]	6.779362	4.393731	6.306054	5.368386	3.736236	5.648838	4.763631
[7162]	3.599507	4.976941	5.411065	6.751959	4.923697	5.043121	4.560050
[7169]	5.268696	4.310512	5.416937	4.479619	5.787343	5.721857	6.139443
[7176]	3.605910	3.329267	5.151834	5.188071	4.770536	5.189990	5.982839
[7183]	4.112858	5.032876	5.600091	6.279828	4.288711	4.405967	4.820349
[7190]	3.418105	5.213526	5.308329	7.988348	4.557039	3.987410	3.567410
[7197]	4.761067	6.567515	4.416866	6.020904	6.872793	6.456745	4.119545
[7204]	6.945499	4.823687	4.908845	5.416360	5.492969	4.262121	4.466740
[7211]	5.869510	5.728192	4.978206	4.976113	4.896489	4.497176	4.566316
[7218]	5.433643	6.285607	5.959848	4.522593	3.164879	4.177026	3.089004
[7225]	5.596439	4.546646	6.190912	4.339755	4.228194	4.380672	3.865278
[7232]	4.251909	6.481383	4.802413	4.973279	4.629884	5.327906	4.941968
[7239]	6.119092	4.534680	6.187100	7.343466	3.790246	3.275530	5.478694
[7246]	4.473123	4.189549	5.773806	3.981051	5.344866	3.467151	4.730047
[7253]	4.735134	7.054556	4.959984	3.043608	5.445476	5.417143	6.003786
[7260]	5.691137	3.900705	4.623716	4.837637	4.490903	4.976633	4.211978
[7267]	4.475030	4.202695	4.506059	4.786148	5.013956	5.352578	3.747998
[7274]	5.706007	4.104286	3.966396	4.408041	5.793174	5.766888	5.329640
[7281]	2.772467	3.926672	5.512068	4.711733	3.650501	4.710862	3.905453
[7288]	6.405133	5.131516	4.555710	5.017646	4.934095	5.548662	5.492263
[7295]	4.445028	4.882929	5.447266	5.461990	5.218402	3.905784	5.970559
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[7309]	4.325169	6.674346	4.421505	5.737115	4.816820	3.759762	5.967114
[7316]	4.189791	4.102006	4.643003	5.266051	4.311585	5.219329	4.311519
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[7344]	5.999640	5.147502	4.981893	4.307067	4.780076	4.659040	4.458912
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[7372]	4.366816	4.884650	5.174608	5.351520	3.992946	4.376086	5.107312
[7379]	5.011258	3.481235	4.542496	5.528022	3.793634	4.222478	4.681258
[7386]	5.706692	5.566940	4.398386	4.484865	4.803715	5.571462	5.279749
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[7407]	4.694118	5.599550	5.494290	3.911438	5.844460	4.646447	4.923092
[7414]	5.305253	4.867737	5.642237	5.675587	4.237725	5.500530	4.575835
[7421]	4.781089	4.403393	4.969582	5.357122	5.322150	6.651089	4.563277
[7428]	4.352687	4.718278	6.086724	6.716219	5.003876	4.966649	4.988134
[7435]	5.603417	5.676681	5.801372	4.870335	6.384864	5.475430	6.028497
[7442]	3.855280	5.557280	5.200723	6.422030	4.089698	6.679822	4.228340
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[7470]	5.021166	4.742611	4.674113	5.350357	4.235235	3.752190	4.889075
[7477]	6.164079	5.238703	5.074948	3.845314	3.614971	5.438553	5.046967
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[7498]	5.224979	3.619930	5.778130	4.176959	6.166402	6.237607	5.502254
[7505]	6.207410	5.396205	5.715270	4.080779	6.454749	4.867919	4.863145
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[7519]	6.833122	4.180003	4.985469	5.471799	4.618909	4.457775	5.476950
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[7533]	4.482732	4.760886	4.639199	4.475062	3.093722	5.053057	3.615292
[7540]	5.769636	5.317623	5.409271	3.973447	4.449458	5.449016	6.427311
[7547]	5.959530	4.090544	6.852202	3.621883	4.531114	6.107705	4.556791
[7554]	5.732758	4.314141	4.594522	6.104865	6.390087	4.667267	5.360394
[7561]	5.280740	4.705435	4.205310	4.906182	5.628153	4.159610	3.480958
[7568]	5.666449	5.466894	3.949585	4.653079	4.734170	4.551954	5.067149
[7575]	5.334079	5.033706	6.347198	4.284455	5.257816	3.925448	5.372783
[7582]	4.050652	3.783015	4.389586	6.241546	6.160753	5.373667	6.939009
[7589]	4.865847	4.688667	5.831422	6.402668	4.245150	5.011586	5.008845
[7596]	5.776089	5.015559	4.171663	5.484767	5.040315	5.892973	5.612056
[7603]	4.430344	5.949709	5.246897	4.447759	4.351384	5.181799	4.338100

[7610]	5.256411	4.799085	4.708954	4.210286	4.809347	4.065546	3.601224
[7617]	3.409291	5.924175	3.535892	6.016933	3.586359	5.124247	5.507431
[7624]	5.585031	3.869256	5.389944	4.523693	4.833950	4.250236	4.584410
[7631]	3.292956	4.955529	5.263884	4.582230	7.166722	3.726900	4.237916
[7638]	4.445617	5.571434	4.281870	6.559364	5.149912	4.217069	5.344337
[7645]	4.348136	3.890308	4.359791	5.507036	5.283892	4.266136	5.749948
[7652]	4.016996	4.371833	6.077590	6.467088	4.352877	5.197020	4.651864
[7659]	3.977190	3.657090	5.535769	6.303752	4.140248	4.441346	4.710216
[7666]	4.204959	5.436893	5.488368	3.719591	4.781867	6.944435	6.170865
[7673]	5.857424	4.922094	6.445351	3.007374	4.774260	4.315683	3.622847
[7680]	4.574598	5.236501	4.161802	4.574529	6.279927	3.396538	4.263082
[7687]	6.123968	6.585573	5.212474	3.393899	3.595646	4.911287	4.782379
[7694]	4.526460	4.709534	4.274455	5.785164	5.327074	4.806566	5.472008
[7701]	4.073294	5.264399	5.769093	6.478805	4.028266	3.370352	4.173870
[7708]	4.565851	4.183699	4.474756	6.424685	6.757840	4.447246	4.607262
[7715]	4.705050	6.871754	4.727053	3.717200	5.865595	5.262078	4.462424
[7722]	4.441098	6.486140	3.905389	4.865908	4.142833	5.435713	5.322769
[7729]	4.714393	5.254901	5.907673	4.623958	6.371757	4.676562	5.150238
[7736]	3.097139	6.023222	5.779385	6.315285	6.557983	7.160118	3.834425
[7743]	4.247608	4.751278	4.553177	6.014145	4.417409	4.770156	4.670581
[7750]	3.956698	6.182026	4.982968	4.408852	4.662013	5.856070	5.323434
[7757]	3.666086	4.783634	3.816553	4.034216	3.812255	4.578813	4.492032
[7764]	4.954360	4.869831	5.398071	4.841465	5.955431	5.584847	3.687897
[7771]	5.569958	3.723401	5.619750	5.121309	4.691271	5.230720	3.685671
[7778]	4.888256	4.781089	5.825798	5.611285	6.457599	5.201958	5.261816
[7785]	4.824719	5.373663	4.376841	5.125713	6.924640	5.591442	3.310859
[7792]	4.808610	3.045188	3.939316	3.427411	4.885539	5.079436	5.785717
[7799]	4.090256	5.995158	5.713149	3.973629	3.911903	4.844088	5.264979
[7806]	4.173879	7.109847	6.039089	5.229838	7.389022	5.246789	4.075752
[7813]	5.443096	3.374975	5.485065	5.755602	3.589533	4.086898	5.291886
[7820]	3.731431	5.218948	5.178519	4.067220	5.702345	4.990413	5.454683
[7827]	4.802110	5.951165	4.039181	6.020207	4.649682	4.773804	4.537599
[7834]	5.060017	6.023834	4.974495	4.278527	3.978391	4.370885	2.353180
[7841]	6.306940	6.300123	4.694401	3.974868	6.663173	4.099984	4.503501
[7848]	4.249182	5.147967	4.152536	4.559515	5.932987	5.437207	6.561689
[7855]	4.774949	3.774627	5.510690	5.075385	3.892407	6.534335	4.647997
[7862]	5.063999	5.431365	5.009489	6.155642	5.117746	5.228610	5.677373
[7869]	4.658476	5.449269	6.446423	4.244638	5.067123	4.578585	5.100981
[7876]	4.889874	5.434779	3.933069	5.413028	5.842799	4.194957	5.334382
[7883]	3.500716	5.139349	6.220469	6.905377	5.563173	4.914614	4.435022
[7890]	4.243357	4.955761	4.805661	5.937521	5.848841	4.389086	4.348437
[7897]	5.241429	5.087395	5.518723	6.251521	4.000279	4.279570	4.259625
[7904]	5.382794	5.878743	5.194889	4.233910	4.343283	6.842944	3.335153

[7911]	5.020293	4.484593	4.175998	4.442048	4.392602	5.244846	6.015526
[7918]	4.160485	4.960278	5.472334	5.370276	5.121080	6.103076	5.775505
[7925]	5.759051	4.924564	4.710556	4.349783	4.187506	4.033803	6.104486
[7932]	4.277192	4.627963	5.412137	4.587105	4.713241	7.365075	5.337650
[7939]	4.406719	5.387496	5.310850	5.416589	5.628022	4.540801	4.929679
[7946]	5.304599	5.799303	3.231752	4.702419	4.652056	4.363300	4.615909
[7953]	3.907668	6.252060	5.366615	4.483592	7.825732	5.728151	4.134546
[7960]	4.451704	4.421758	5.486803	5.777666	5.796349	5.327335	5.391252
[7967]	3.790213	8.175626	5.345826	5.582787	5.751587	3.910275	3.716419
[7974]	4.228653	6.735718	4.066717	3.643844	6.279358	6.066937	4.903268
[7981]	4.669402	5.178997	4.481517	4.151909	5.099182	6.389455	6.058591
[7988]	4.868005	5.199374	5.261234	4.551504	4.539657	4.582316	7.048586
[7995]	5.370388	4.445649	5.622399	3.988756	4.380848	3.419122	6.220306
[8002]	4.001615	7.145385	5.829467	5.896539	5.880071	4.022312	5.384667
[8009]	4.359506	7.057127	3.326962	4.885394	5.691016	6.429551	5.669319
[8016]	6.836753	5.728662	4.487045	4.105100	6.236192	4.749861	5.262166
[8023]	4.461226	5.255702	5.834854	5.587157	3.607004	4.465760	5.275761
[8030]	4.846972	5.445596	3.720520	3.297335	4.684713	3.752680	4.757393
[8037]	4.807743	5.136819	4.272737	5.205596	6.374318	5.736342	4.410638
[8044]	4.785276	5.561421	5.472179	5.838746	5.142167	4.353365	6.467993
[8051]	5.232864	4.451031	5.184986	5.843312	5.149639	3.869230	5.361249
[8058]	7.407199	4.862436	3.138043	6.907450	4.256795	4.266012	2.859211
[8065]	4.856185	3.830917	4.144469	3.649646	4.107418	8.354293	4.461942
[8072]	6.226760	4.653695	5.784684	3.719094	3.590556	5.750470	4.964515
[8079]	5.614032	4.675169	4.823844	4.747530	4.294178	5.196468	5.661444
[8086]	5.195159	5.202337	4.287025	4.021454	3.796047	6.162394	5.504221
[8093]	4.350943	5.268540	5.307512	5.730662	5.111676	5.667946	5.197248
[8100]	4.729394	5.367123	3.525971	4.691628	4.509465	5.377564	6.025798
[8107]	3.990395	4.509135	5.787709	4.937635	3.785375	6.115259	4.717070
[8114]	4.395548	6.011652	3.977626	4.254776	5.546417	4.253309	5.290732
[8121]	5.572336	4.447877	4.017691	4.631755	5.112420	5.645560	4.098538
[8128]	5.952363	4.834781	4.841976	4.875850	3.591510	4.133109	6.552694
[8135]	4.859724	4.851789	4.676091	3.824421	4.741453	4.268263	4.775502
[8142]	5.094711	4.730493	5.525509	5.977253	5.453227	5.542265	5.192817
[8149]	4.680911	5.155908	4.963116	5.357383	4.162818	5.571819	6.102504
[8156]	4.461952	6.298190	4.473996	6.434154	5.095893	5.623916	5.546319
[8163]	5.066566	5.658158	3.587677	5.546744	5.278650	3.496036	4.733443
[8170]	4.257789	6.798032	5.371419	4.473630	4.625641	4.860355	5.144710
[8177]	5.975653	4.265112	3.844942	4.728555	4.829086	6.425481	4.680733
[8184]	5.911601	5.951877	4.552543	3.596728	5.399409	4.958251	5.051608
[8191]	5.023784	5.404003	6.654907	4.438506	4.433662	4.680355	4.703581
[8198]	4.657354	6.951873	4.863535	5.496618	5.944028	6.463576	5.277043
[8205]	3.801096	5.201309	4.561658	3.269387	6.300335	3.797843	5.668064

[8212]	4.871961	4.820806	4.831937	3.968756	4.152074	5.721996	4.099912
[8219]	7.411748	4.634291	5.058164	5.030351	4.361621	5.887858	5.771205
[8226]	4.470361	7.502877	5.504287	6.232493	6.882603	6.317363	4.424558
[8233]	5.718041	5.820191	4.845953	5.685929	3.772383	3.924452	4.786640
[8240]	4.908862	5.296063	5.992293	5.467067	4.797413	6.864103	4.798787
[8247]	4.927453	4.687719	4.414677	3.673259	5.020056	4.892948	3.819194
[8254]	4.600581	4.791919	5.225146	3.857678	4.977919	4.412989	4.640652
[8261]	6.486051	4.808786	5.695462	3.408132	4.733507	5.972534	5.266391
[8268]	3.304171	4.749418	6.946674	4.500220	7.828827	4.504086	4.059543
[8275]	6.201812	5.531375	5.161614	4.915984	5.633675	4.146587	5.504496
[8282]	6.643492	4.547548	3.990705	5.267914	4.443129	7.176984	3.591332
[8289]	7.066641	5.869112	6.178618	3.894884	4.808956	4.613961	4.718266
[8296]	4.295233	4.348924	4.835911	5.985546	5.924191	5.114687	5.916006
[8303]	4.402868	5.257343	4.514540	5.810733	4.655600	5.598365	4.617773
[8310]	8.380951	4.972549	6.035281	6.087691	4.805350	4.291895	4.066223
[8317]	5.490016	5.806154	4.248963	4.551971	5.227291	5.818533	4.779548
[8324]	4.317877	3.745275	7.498762	5.092406	3.976548	6.203878	5.227935
[8331]	4.961880	5.833834	4.321196	5.562041	5.088936	4.024007	4.819637
[8338]	4.645515	4.730102	4.588464	6.218659	7.606513	4.253950	4.648597
[8345]	4.854213	3.961457	4.201322	5.805112	4.415044	5.112980	4.237728
[8352]	5.177929	4.575181	4.406541	5.758704	5.000118	5.647459	4.941434
[8359]	4.855953	4.834023	6.599220	3.897679	6.376150	5.290792	4.740471
[8366]	3.532308	4.340814	6.632251	4.555582	4.290873	6.195986	5.036667
[8373]	4.729404	4.455127	4.366244	4.327245	5.022091	3.695236	4.720561
[8380]	3.983549	6.139641	5.240969	4.058975	5.074005	4.495444	7.109101
[8387]	5.014233	3.734365	5.405239	5.228002	6.395605	5.064388	7.155175
[8394]	5.088732	4.612225	5.826961	5.665383	4.442130	4.783502	6.517340
[8401]	4.445007	4.697699	4.499416	5.102038	5.685864	3.619870	5.665030
[8408]	4.476529	3.664224	3.926082	4.107817	3.872904	6.683436	4.592508
[8415]	5.472472	4.893694	4.489720	6.763065	5.282677	7.175060	2.982861
[8422]	4.562428	4.641027	10.193215	3.686168	3.394997	3.967331	4.381973
[8429]	3.844305	4.608030	4.919336	5.779558	5.458391	3.922851	4.295079
[8436]	4.622086	6.005226	3.882953	4.141540	5.896204	4.597209	5.235834
[8443]	4.826782	4.806264	3.016052	5.568263	5.507814	4.546826	4.093154
[8450]	5.727510	4.188484	5.280381	4.822310	4.414365	5.124547	4.612477
[8457]	5.181709	4.684114	5.603684	4.347935	4.683888	5.514043	4.791658
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[8478]	4.281569	4.082836	4.805260	5.225938	3.322887	5.342606	6.412166
[8485]	4.788780	3.639294	4.687896	3.693305	4.335121	5.578431	4.676076
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[8499]	4.989659	5.105148	4.531900	5.835086	4.894246	5.869023	4.397632
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[8513]	4.322993	3.855522	5.699019	4.351464	5.862943	5.732994	6.084359
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[8534]	4.969091	4.704800	3.108675	5.818289	8.173123	4.957842	5.816327
[8541]	3.726744	4.846291	4.676715	5.515826	4.862055	6.209839	5.489743
[8548]	4.566465	5.799573	4.508820	5.211114	4.749981	3.734492	4.537909
[8555]	3.999388	3.966086	4.513264	5.461315	6.779629	4.709423	5.048220
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[8569]	4.623338	4.637172	4.990954	5.044474	5.012713	5.109212	4.265981
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[8590]	6.007485	3.708533	5.167263	3.321117	5.892889	6.358058	4.425571
[8597]	4.701672	5.696919	6.539697	5.117285	4.117558	5.868337	4.047818
[8604]	4.478567	4.683529	7.008529	5.530269	5.806718	4.805459	7.575088
[8611]	4.495539	4.049399	5.522405	4.140809	5.924268	4.826284	4.895885
[8618]	4.307196	5.325381	4.056655	5.212144	5.367992	4.958090	4.431720
[8625]	5.734986	5.310886	4.201649	4.737641	5.513646	5.473822	3.869219
[8632]	3.533555	6.103850	4.341468	4.575140	5.535018	6.679987	5.120600
[8639]	6.414697	5.620239	4.609084	4.772761	6.219519	5.096028	4.835707
[8646]	2.698045	6.086595	5.799049	4.535948	6.752325	4.726444	4.890976
[8653]	5.155097	4.797220	5.938751	4.601787	4.534485	6.167501	4.470354
[8660]	4.717714	4.346504	4.907332	7.153045	5.044478	6.398362	5.157110
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[8681]	5.472438	3.109942	5.552075	4.437422	7.658059	6.246585	6.095245
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[8702]	4.848000	6.056111	4.157237	4.955316	6.616657	4.068821	4.986249
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[8758]	5.190946	5.428126	6.518912	7.324506	5.578481	2.392982	4.870283
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[8786]	5.209439	5.878907	6.264874	5.571018	5.771002	5.840041	4.699934
[8793]	4.726423	5.598390	4.918235	3.808463	6.057266	3.835892	5.111077
[8800]	5.054934	6.479763	4.391852	5.356936	4.754317	4.395447	5.672294
[8807]	6.010204	4.394413	6.679889	4.554368	5.860491	5.824288	4.324383

[8814]	5.403364	3.434102	4.418815	3.904770	3.577710	4.258151	3.568727
[8821]	3.713464	5.537561	3.875668	4.641230	3.608664	6.131882	6.015472
[8828]	3.929905	5.763658	5.705263	5.374099	5.915154	5.255646	3.598129
[8835]	5.755667	4.096963	5.246867	4.190608	6.647433	4.747703	5.925671
[8842]	3.949448	4.979790	4.241056	4.008322	5.489605	5.794443	5.065343
[8849]	3.669216	3.797740	4.430485	4.876225	4.352197	4.740814	5.181979
[8856]	4.476858	5.431263	5.809099	5.451790	5.460317	4.018240	5.148766
[8863]	2.928544	3.622402	6.903156	4.343856	5.427157	4.779791	4.049806
[8870]	6.418058	6.632747	4.462554	4.732773	6.170314	3.633695	4.353000
[8877]	4.782284	4.827449	7.116144	4.523247	7.147382	4.341583	5.370265
[8884]	3.523970	5.194402	4.430224	5.124178	3.684183	4.984645	5.057815
[8891]	3.788994	4.132488	5.570760	4.195612	4.317537	4.556713	4.118559
[8898]	5.874734	6.082946	4.465447	5.458297	5.910038	4.677018	5.854717
[8905]	6.615878	3.884545	5.098134	6.701828	5.969893	4.785724	4.198728
[8912]	4.741309	4.800779	4.674129	4.724604	5.969807	3.988573	5.338516
[8919]	5.920594	4.752978	5.041334	6.428981	5.761670	4.267779	5.859056
[8926]	5.411020	3.515985	5.754726	4.337053	4.604037	4.477976	4.476123
[8933]	4.962310	4.366421	6.481354	4.672688	4.722279	5.717487	5.660109
[8940]	4.896217	4.507030	5.490659	3.769629	3.817100	5.877194	4.436071
[8947]	4.311021	4.432619	3.941689	3.602620	5.932701	3.893153	4.625612
[8954]	4.001196	5.664941	4.165825	6.020806	3.974704	5.404630	3.567301
[8961]	5.422975	5.397438	3.526429	4.365795	4.766083	5.635334	5.271264
[8968]	4.537068	6.048364	3.728204	4.850513	4.314951	4.717361	5.524160
[8975]	4.677109	6.241298	5.249123	4.515664	7.303365	4.033324	4.290158
[8982]	4.768134	5.783038	3.719375	4.694284	4.450246	4.896404	5.095846
[8989]	5.540667	3.723731	4.461509	4.612721	5.028916	4.869920	2.934495
[8996]	4.588442	5.076621	4.249648	4.550727	5.505694	7.624030	4.038885
[9003]	5.224120	5.805237	6.420073	5.944507	5.779031	5.336980	4.847597
[9010]	6.035806	5.498424	5.565443	5.234706	4.978684	5.323122	4.803343
[9017]	6.552081	5.222513	3.885986	4.643849	4.081965	5.782994	4.786051
[9024]	3.513923	3.419749	4.811645	3.891675	6.188167	4.976462	4.581311
[9031]	4.159990	3.478784	4.772248	4.298567	4.256770	4.025849	2.845847
[9038]	4.154111	4.938656	3.281568	4.882270	4.641660	3.722621	5.687364
[9045]	4.637561	5.135849	4.892381	3.504987	4.533413	5.256297	4.711515
[9052]	4.386298	5.331300	4.836673	4.101445	4.165398	5.173715	5.121260
[9059]	5.697602	3.896624	6.991336	3.774233	3.901414	5.213945	4.262339
[9066]	4.879406	5.432913	3.799583	4.818230	4.526985	4.030642	5.506270
[9073]	5.337889	4.613349	6.638415	6.539870	5.966344	5.734677	5.691116
[9080]	4.604500	5.302506	5.041304	3.627795	4.875724	5.145759	4.333398
[9087]	5.097002	5.011177	7.684665	6.342300	6.555595	4.499834	6.335628
[9094]	5.304713	3.869551	5.567504	5.612674	4.235142	4.668390	3.104443
[9101]	5.116060	4.021716	5.397826	4.244521	4.504906	4.983920	4.546182
[9108]	4.786562	5.336892	4.491608	4.673115	4.822420	4.111420	6.853803

[9115]	4.627959	5.381258	3.585942	3.811016	6.947706	4.961731	5.364307
[9122]	6.597754	4.710532	3.177687	5.196937	5.167139	4.216326	7.038319
[9129]	4.541573	4.610444	4.580827	5.075888	3.557993	3.506535	6.069660
[9136]	5.555135	5.223263	5.606191	5.528490	5.278140	6.059579	4.490311
[9143]	5.691176	4.698665	3.000689	5.608631	5.003244	4.973172	7.081387
[9150]	6.396363	4.005670	5.355339	4.394332	4.416186	4.331437	5.559055
[9157]	4.003792	3.683163	5.633087	4.337912	5.050629	6.475463	3.764934
[9164]	4.655186	4.320674	6.719340	6.381076	4.488579	4.577362	5.074460
[9171]	4.975027	4.715700	6.029988	3.586048	5.211494	5.199781	2.771824
[9178]	5.202140	4.339180	5.798702	4.559131	4.456234	4.030378	5.649680
[9185]	3.705535	4.743581	4.008722	3.617371	4.048884	3.859767	4.836614
[9192]	4.356730	3.441200	5.591557	6.861509	4.467128	6.002447	6.018568
[9199]	5.222024	4.840379	6.528840	6.726569	3.368350	6.510598	5.106983
[9206]	3.682508	3.694054	4.354329	5.174382	6.915338	4.708746	4.614539
[9213]	5.017597	5.276774	6.146831	4.079604	4.096156	4.714758	4.274032
[9220]	5.135464	4.117779	4.264029	6.713349	4.913933	4.634054	6.522555
[9227]	3.820997	6.678835	3.411557	6.033607	4.933370	4.110880	6.104525
[9234]	3.433158	7.043112	2.895559	5.174221	4.946918	5.121756	4.122996
[9241]	5.368085	4.272378	4.140909	4.194305	7.225832	4.684101	5.368500
[9248]	5.993657	4.260631	4.479693	4.841821	5.446239	5.385905	5.412099
[9255]	4.271744	3.798107	4.961268	4.439649	5.366524	6.484907	4.374794
[9262]	5.570494	6.507612	5.824727	5.460981	4.657724	5.007153	4.308509
[9269]	4.633427	4.846366	5.098397	5.091205	5.435928	3.873822	5.208932
[9276]	6.380433	4.859572	4.546417	6.382155	5.181841	4.119482	4.390104
[9283]	6.135536	4.546800	4.186376	5.511568	4.972716	4.422556	4.757937
[9290]	4.964112	5.137202	5.654590	5.415124	4.509723	4.461243	4.779088
[9297]	5.949489	4.626548	6.578329	4.140601	5.421396	5.867496	5.083181
[9304]	4.150793	4.940551	4.465373	6.188565	3.135297	5.245882	4.601419
[9311]	5.573008	5.685032	4.682677	3.835144	4.021660	5.123182	6.065833
[9318]	5.146276	4.863736	5.064075	5.438145	4.626415	5.284190	6.258722
[9325]	4.001661	4.234823	4.733133	5.226026	4.725164	4.636026	4.492546
[9332]	5.264640	5.111835	4.427335	5.094966	6.797083	4.903202	5.406378
[9339]	5.667642	5.661276	5.295274	4.653444	4.936923	3.962368	4.698300
[9346]	5.244566	4.430061	5.163435	4.453085	6.887275	4.435183	5.186236
[9353]	5.384379	6.407457	4.573755	4.499405	3.497176	4.954079	6.485109
[9360]	4.220128	5.136410	5.806144	4.381776	4.392839	4.068635	6.191579
[9367]	4.751041	6.231926	5.806691	4.376226	5.922506	4.286538	4.722197
[9374]	4.515812	5.319283	6.331390	3.942520	4.209399	5.205886	6.275327
[9381]	4.027212	5.378344	4.572006	5.407366	4.651387	4.925547	4.870135
[9388]	5.487775	6.237851	5.387467	4.108085	6.444280	3.625681	4.071026
[9395]	5.544596	5.655147	4.122363	6.556285	4.506527	4.786817	4.438716
[9402]	4.084191	7.158669	6.226980	4.003915	4.924928	4.564629	3.872310
[9409]	7.272886	5.382118	5.372796	3.523158	3.647278	5.408114	5.458557

[9416]	5.274311	6.327159	6.319102	4.801912	4.651641	5.941903	4.389721
[9423]	3.865395	5.230276	4.653741	5.097107	7.366529	5.260600	5.310570
[9430]	3.401424	3.771940	4.244539	4.601014	7.152954	4.917853	5.222818
[9437]	5.562699	5.426733	5.541868	5.053630	4.075564	4.852870	4.146765
[9444]	5.749443	5.050985	5.099613	5.852961	4.293197	6.047997	5.168561
[9451]	5.068356	7.282078	5.308244	5.523659	6.658690	4.323295	5.609084
[9458]	7.222422	7.119871	5.751910	4.401505	6.398453	5.260359	5.084576
[9465]	3.679432	5.179931	3.173175	4.055625	3.502537	4.770459	5.568909
[9472]	5.462977	4.179964	6.351735	3.967691	4.598307	5.399536	5.382226
[9479]	4.945543	5.464442	5.070467	5.203934	6.349542	5.250844	4.936226
[9486]	5.892642	4.663109	4.385320	4.069037	7.252740	5.226958	4.102708
[9493]	4.489850	5.282729	5.772220	5.940407	3.516914	5.860649	3.915187
[9500]	4.947925	4.736987	6.122214	3.991096	4.287858	6.098952	6.222376
[9507]	5.826502	4.753979	5.751202	4.892904	5.671114	3.785241	5.535021
[9514]	4.966653	4.929752	4.630962	5.938562	4.549805	4.055842	4.321396
[9521]	5.109553	5.369180	4.994501	4.516663	4.233053	4.754579	5.287525
[9528]	3.176363	5.143200	5.343476	5.252192	4.454474	6.174909	4.075310
[9535]	6.034685	4.115993	3.840085	6.852897	5.760838	7.163128	3.955632
[9542]	4.275161	3.532158	3.282292	4.012026	3.924002	3.624771	4.269125
[9549]	5.270888	4.194977	4.806901	6.195146	4.745842	5.602628	4.406671
[9556]	5.479861	5.940628	5.661828	4.751438	3.309824	5.085608	4.490747
[9563]	6.865390	6.550100	6.277666	5.873825	3.857577	6.741559	5.025228
[9570]	6.254542	6.946720	3.498966	5.525071	4.314524	3.887195	5.935519
[9577]	5.204189	4.613953	4.215207	4.832446	4.858783	4.844133	3.598826
[9584]	5.427160	4.702287	5.587802	4.956107	4.966507	5.030650	5.024751
[9591]	5.124296	4.763170	4.736533	4.765349	4.040881	4.378405	4.817178
[9598]	6.097284	4.845884	4.246209	6.004131	4.341031	4.082384	5.680790
[9605]	3.977574	5.281071	3.463566	4.564205	4.230958	5.164438	4.675493
[9612]	6.216452	4.481302	6.087676	6.485504	5.332421	5.120427	4.743868
[9619]	3.693525	4.560468	5.248598	4.035705	4.000460	3.440525	6.245594
[9626]	4.542255	5.871318	5.815710	6.714663	4.099134	4.247530	5.496057
[9633]	3.430808	3.889077	4.730548	5.020582	4.636982	3.941335	4.582250
[9640]	4.666197	5.103529	6.103730	4.053224	6.613214	4.762225	5.752536
[9647]	4.121801	3.775282	5.701198	6.276318	3.905236	5.684536	4.231677
[9654]	4.206158	5.601952	5.406129	4.338062	5.317088	5.078892	5.450088
[9661]	3.351728	5.335967	5.712102	4.228067	5.131479	4.907964	4.944044
[9668]	5.507079	6.427661	6.581928	4.818616	6.140378	5.352602	4.378524
[9675]	4.424029	5.189738	5.641589	4.733145	6.000222	5.910500	3.308044
[9682]	2.360179	3.797126	4.785282	3.958893	3.336806	5.830161	5.270322
[9689]	4.964631	5.134477	5.336004	5.441190	5.284436	5.142548	5.005200
[9696]	4.674479	4.416053	5.047359	3.520283	6.584061	6.619083	4.813363
[9703]	4.742337	4.441913	6.475740	5.408909	4.896641	5.323684	5.014174
[9710]	4.558340	5.011035	5.245284	5.926641	5.013830	3.960112	4.017754

[9717]	3.937274	4.220144	5.255809	5.350397	5.718737	4.067580	5.080571
[9724]	4.844701	3.339169	6.527642	5.122100	5.996079	5.041494	3.935138
[9731]	4.222730	4.778100	5.623727	3.407408	6.594382	3.504131	5.375272
[9738]	4.669576	4.621705	4.475316	4.122481	5.058328	6.500813	4.845243
[9745]	5.659393	5.078254	5.852782	6.333831	7.500311	3.321195	5.722153
[9752]	4.571458	6.119071	5.227158	5.482131	5.915077	5.199464	6.187798
[9759]	4.533399	6.131452	4.910775	6.104954	4.521796	5.037126	6.945123
[9766]	4.801870	6.179137	4.028081	3.643723	3.914264	5.270308	3.196759
[9773]	5.058062	4.695726	4.620462	5.180969	4.497515	5.978894	5.884326
[9780]	3.989054	3.275064	6.814650	3.980373	4.940278	5.175267	5.538909
[9787]	4.921868	5.991674	5.753690	5.850717	5.131744	4.763791	5.554345
[9794]	5.150419	4.398704	4.446723	3.840350	4.538659	3.356656	5.081875
[9801]	3.436914	4.357404	7.187734	7.222645	4.567203	4.200095	3.904950
[9808]	3.837443	5.472210	4.352336	4.238269	4.408901	4.877863	4.144155
[9815]	5.804109	5.545001	4.469988	5.636606	3.641743	4.440193	5.685923
[9822]	4.897919	5.893684	3.965427	3.750871	5.112929	6.183860	4.859183
[9829]	5.353141	6.268572	7.424280	3.294461	4.052185	4.104021	4.459324
[9836]	5.562150	4.458048	6.931259	4.632598	4.693382	4.868727	5.007679
[9843]	4.709015	4.969325	4.268957	3.556328	5.249391	5.903854	4.012649
[9850]	4.986472	3.606603	6.102371	5.348970	5.295779	5.248513	5.083842
[9857]	4.237140	6.488807	4.789553	5.430094	5.056235	4.516764	4.468273
[9864]	5.258532	4.363145	4.492516	5.787737	4.606270	7.038003	5.608363
[9871]	4.666499	4.798152	3.414176	3.981358	5.175110	5.632971	5.291375
[9878]	5.510087	5.075048	5.005717	3.824388	6.622682	6.753641	5.338757
[9885]	4.321454	4.165422	5.255950	5.316234	5.009554	4.676129	5.005439
[9892]	5.056548	3.455402	4.974051	5.335290	4.495389	4.388097	4.111125
[9899]	3.613102	6.048478	4.960933	4.070364	5.209985	5.934845	4.485169
[9906]	6.230628	6.652229	4.480232	4.991478	4.809497	6.823990	4.745332
[9913]	5.509784	5.860375	4.723772	6.189910	4.347910	5.735695	4.530295
[9920]	5.909890	5.096094	4.717497	6.160676	4.164514	4.783501	3.339592
[9927]	3.895676	3.840446	5.074523	4.618946	4.380962	5.675565	4.112998
[9934]	4.546954	5.712939	3.584974	6.371351	5.134601	2.972852	4.563474
[9941]	5.599544	4.456392	4.886224	3.747863	4.168372	6.203314	4.918883
[9948]	5.077323	4.755459	3.428875	3.706935	6.020974	5.258023	4.915810
[9955]	5.214826	5.083220	3.426160	4.652967	6.360295	4.548354	4.517127
[9962]	2.473685	4.224808	6.947580	6.387456	5.493120	5.549971	4.698938
[9969]	3.621635	3.956416	5.202813	5.522976	4.920016	4.288877	3.770689
[9976]	5.945937	7.269939	4.603653	5.951444	3.707481	5.365648	4.621334
[9983]	7.133062	5.975302	6.096920	5.898292	5.436091	4.860079	4.147627
[9990]	4.794852	4.605280	4.446011	4.258329	6.600098	4.955567	5.465014
[9997]	3.584220	5.087197	5.409822	4.679113			

b) Turn your for loop from (a) into a function whose attributes are `samp_size` with default

of 30, and `n_means` with default of 10000. In addition, your histogram should now have a title that says “Means from samples of size 30 from a skewed population”, where 30 is replaced with the user’s input.

```
loop_function <- function(samp_size = 30, n_means = 10000){  
  label <- rlang::englue("Means from samples of size {{samp_size}} from a skewed population")  
  
  x <- vector("double", {{n_means}})  
  for (i in 1:{{n_means}}) {  
    sample <- rexp({{samp_size}}, rate = 0.2)  
    x[i] <- mean(sample)  
  }  
  x  
  tibble(x = x)  
  
  ggplot() +  
    geom_histogram(aes(x = x))+  
    labs(title = label)  
}  
  
loop_function(samp_size = 30, n_means = 10000)
```

``stat_bin()`` using ``bins = 30``. Pick better value with ``binwidth``.

Means from samples of size 30 from a skewed population

