

r_intro PS 2

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Practice Summary Statistics with atomic vector

First thing first, you definitely need `tidyverse` pkg for this exercise. Don't forgot to load it at the top of your answer `rmd` file.

Let's go back to the previous exercise on implementation of the sampling distribution of the means.

2. Construct the list of 100 means values from the `Sepal.Length` and each mean value should construct from 10 sample sizes. (sample size = 10, replication 100 times)
3. Assigned the result (vector with 100 numbers) as vector name called `means_list` and .
4. Construct the another vector called `test` and assigned 1 hundred time in that vector. Use `rep()` function for generation of same value for 100 times.
5. Then, using `cbind` function to combined those two vectors" `test` and `mean_list`, and treat the result as `data.frame` and assigned to the object name `mean_list_1`. You can try with below demo code.

```
means_list_1 <- data.frame(cbind(number, mean_list))
```

Repeat the same process from numbers 1 to 4, but using different sample size and replication number this time.

- for `means_list_2`, using a sample size 30 and replication time 200.
- for `means_list_3`, using a sample size 50 and replication time 1,000.
- for `means_list_4`, using a sample size 50 and replication time 3,000.
- for `means_list_5`, using a sample size 50 and replication time 10,000.

This time, we are going to create the list to store all those `means_list_x` (where `x 1:5`) and assigned that list as `means_seris`. And, perform the following function from that list.

1. calculate the mean of `means_list_x` (where `x 1:5`) from that list (using the command related to filtering list from lecture 2.

For example, if we use the following command, we can get the first dataframe. Your work is to calculate the mean value of column `mean_list`.

```
means_seris[[1]]
```

2. Using `bind_rows()` function to combined all dataset from `means_seris` and assigned into object called `df_means_combined`. Please make sure that your result dataset should have 16100 observations and 2 variables; `test` and `mean_list`.
3. Finally, calculate the mean value for each group of `test` using following example. In this exercise, we are going to use `group_by` function from the `tidyverse` package and `%>%` operator (pipe operator).

```
library(tidyverse)
```

```
## Warning: package 'tidyverse' was built under R version 4.2.2
```

```
## Warning: package 'tidyr' was built under R version 4.2.2
```

```
## Warning: package 'readr' was built under R version 4.2.2
```

```
## Warning: package 'purrr' was built under R version 4.2.2
```

```
## Warning: package 'dplyr' was built under R version 4.2.2
```

```
## Warning: package 'forcats' was built under R version 4.2.2
```

```
iris %>%
  group_by(Species) %>%
  summarise(mean = mean(Sepal.Length))
```

```
## # A tibble: 3 x 2
##   Species      mean
##   <fct>      <dbl>
## 1 setosa      5.01
## 2 versicolor  5.94
## 3 virginica   6.59
```

2. Construct the list of 100 means values from the `Sepal.Length` and each mean value should construct from 10 sample sizes. (sample size = 10, replication 100 times)3. Assigned the result (vector with 100 numbers) as vector name called `means_list` and

```
df <- iris
means_list <- replicate(n = 100, expr = mean(sample(df$Sepal.Length, size = 10, replace=TRUE)))
means_list
```

```
##   [1] 5.34 6.17 5.78 5.81 5.86 5.97 5.94 5.87 5.51 5.92 5.62 5.91 6.11 5.91 5.86
##  [16] 5.36 5.88 5.96 5.52 6.01 6.40 6.02 6.55 5.91 6.27 6.42 5.78 5.82 5.36 5.74
##  [31] 5.71 5.56 5.65 6.04 5.75 5.75 5.43 5.85 6.38 5.77 5.88 6.08 5.41 6.03 6.04
##  [46] 5.80 5.99 5.80 5.98 5.85 6.12 6.09 5.66 5.20 5.86 5.99 6.03 5.87 5.32 5.50
##  [61] 6.00 5.75 6.30 6.21 6.20 5.62 6.31 5.60 5.91 5.40 6.09 6.25 5.67 5.46 5.92
##  [76] 5.74 5.65 6.17 5.97 5.81 6.11 6.09 5.96 5.96 4.86 5.76 6.04 5.96 5.81 6.18
##  [91] 5.42 5.51 5.74 5.93 5.64 5.94 5.86 5.59 5.87 5.67
```

4. Construct the another vector called test and assigned 1 hundred time in that vector. Use rep() function for generation of same value for 100 times.

```
test <- rep (100,100)
test
```

```
## [1] 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100
## [19] 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100
## [37] 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100
## [55] 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100
## [73] 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100
## [91] 100 100 100 100 100 100 100 100 100 100
```

Then, using cbind function to combined those two vectors” test and mean_list, and treat the result as data.frame and assigned to the object name mean_list_1. You can try with below demo code.

```
means_list_1 <- data.frame(cbind(test, means_list))
means_list_1
```

```
##      test means_list
## 1     100      5.34
## 2     100      6.17
## 3     100      5.78
## 4     100      5.81
## 5     100      5.86
## 6     100      5.97
## 7     100      5.94
## 8     100      5.87
## 9     100      5.51
## 10    100      5.92
## 11    100      5.62
## 12    100      5.91
## 13    100      6.11
## 14    100      5.91
## 15    100      5.86
## 16    100      5.36
## 17    100      5.88
## 18    100      5.96
## 19    100      5.52
## 20    100      6.01
## 21    100      6.40
## 22    100      6.02
## 23    100      6.55
## 24    100      5.91
## 25    100      6.27
## 26    100      6.42
## 27    100      5.78
## 28    100      5.82
## 29    100      5.36
```

##	30	100	5.74
##	31	100	5.71
##	32	100	5.56
##	33	100	5.65
##	34	100	6.04
##	35	100	5.75
##	36	100	5.75
##	37	100	5.43
##	38	100	5.85
##	39	100	6.38
##	40	100	5.77
##	41	100	5.88
##	42	100	6.08
##	43	100	5.41
##	44	100	6.03
##	45	100	6.04
##	46	100	5.80
##	47	100	5.99
##	48	100	5.80
##	49	100	5.98
##	50	100	5.85
##	51	100	6.12
##	52	100	6.09
##	53	100	5.66
##	54	100	5.20
##	55	100	5.86
##	56	100	5.99
##	57	100	6.03
##	58	100	5.87
##	59	100	5.32
##	60	100	5.50
##	61	100	6.00
##	62	100	5.75
##	63	100	6.30
##	64	100	6.21
##	65	100	6.20
##	66	100	5.62
##	67	100	6.31
##	68	100	5.60
##	69	100	5.91
##	70	100	5.40
##	71	100	6.09
##	72	100	6.25
##	73	100	5.67
##	74	100	5.46
##	75	100	5.92
##	76	100	5.74
##	77	100	5.65
##	78	100	6.17
##	79	100	5.97
##	80	100	5.81
##	81	100	6.11
##	82	100	6.09
##	83	100	5.96

```
## 84 100 5.96
## 85 100 4.86
## 86 100 5.76
## 87 100 6.04
## 88 100 5.96
## 89 100 5.81
## 90 100 6.18
## 91 100 5.42
## 92 100 5.51
## 93 100 5.74
## 94 100 5.93
## 95 100 5.64
## 96 100 5.94
## 97 100 5.86
## 98 100 5.59
## 99 100 5.87
## 100 100 5.67
```

Repeat the same process from numbers 1 to 4, but using different sample size and replication number this time.

```
set.seed(19586)
means_list_2 <- replicate(n = 200,
                          expr = mean(
                            sample(df$Sepal.Length,
                                   size = 30,
                                   replace=TRUE)))
means_list_2
```

```
## [1] 5.820000 5.736667 6.126667 5.946667 5.913333 5.853333 5.676667 5.770000
## [9] 5.620000 5.780000 5.750000 5.806667 5.916667 5.753333 5.943333 5.900000
## [17] 5.943333 5.793333 5.720000 5.763333 5.980000 5.860000 5.830000 5.596667
## [25] 5.723333 5.790000 6.100000 5.803333 5.920000 5.836667 5.896667 5.746667
## [33] 5.723333 5.893333 5.800000 5.706667 5.750000 5.920000 5.916667 5.526667
## [41] 5.850000 5.996667 5.730000 6.013333 5.550000 5.563333 5.963333 5.960000
## [49] 5.883333 5.856667 5.766667 5.603333 6.020000 5.953333 5.813333 5.740000
## [57] 5.743333 6.016667 5.906667 5.743333 5.850000 5.763333 5.566667 5.883333
## [65] 6.033333 5.983333 5.920000 5.870000 6.000000 5.843333 5.943333 5.926667
## [73] 5.990000 5.570000 5.700000 5.880000 5.813333 5.880000 5.873333 5.866667
## [81] 5.980000 5.906667 5.766667 5.763333 6.053333 5.753333 5.886667 6.213333
## [89] 5.923333 5.833333 5.923333 5.936667 5.933333 5.770000 5.846667 5.670000
## [97] 5.790000 6.073333 5.580000 5.730000 5.820000 5.803333 5.823333 5.723333
## [105] 5.720000 5.726667 5.690000 5.793333 5.763333 5.746667 5.736667 5.580000
## [113] 5.610000 5.673333 5.820000 5.840000 5.776667 5.830000 5.876667 5.760000
## [121] 5.703333 5.656667 6.003333 5.753333 5.823333 5.693333 5.610000 5.840000
## [129] 5.956667 5.830000 6.123333 5.723333 5.966667 5.913333 5.763333 5.796667
## [137] 5.753333 5.700000 5.620000 5.823333 5.993333 5.983333 5.893333 5.753333
## [145] 5.780000 5.953333 5.726667 6.010000 5.716667 5.686667 5.926667 5.803333
## [153] 5.823333 6.063333 5.940000 6.103333 5.806667 5.680000 6.020000 5.713333
## [161] 5.873333 5.806667 5.886667 5.810000 5.940000 5.903333 5.813333 5.790000
## [169] 5.770000 5.963333 5.750000 5.903333 5.806667 5.890000 5.956667 6.043333
## [177] 5.903333 5.770000 5.963333 5.643333 5.770000 5.606667 5.770000 5.896667
```

```
## [185] 5.773333 5.876667 5.796667 5.926667 5.920000 5.713333 6.060000 5.716667
## [193] 5.926667 5.970000 5.896667 5.643333 6.046667 5.986667 5.830000 5.830000
```

```
means_list_3 <- replicate(n = 1000,
                           expr = mean(
                               sample(df$Sepal.Length,
                                      size = 50,
                                      replace=TRUE)))
means_list_3
```

```
##      [1] 5.802 5.854 5.650 5.900 5.686 5.678 5.786 5.776 6.066 5.974 5.832 5.564
##     [13] 5.792 5.688 5.804 5.888 5.976 5.722 5.854 5.788 6.052 5.990 5.796 5.784
##     [25] 5.734 5.668 5.766 5.934 5.852 5.752 5.798 5.748 6.026 5.776 5.796 5.848
##     [37] 5.924 5.980 5.576 5.796 5.762 5.936 5.944 5.654 5.654 5.832 5.646 5.798
##     [49] 5.630 5.914 5.866 5.644 5.738 5.916 5.744 5.728 5.710 5.856 5.966 5.740
##     [61] 5.996 5.982 5.824 5.894 5.874 5.876 5.730 5.968 5.686 5.984 6.078 5.878
##     [73] 5.738 5.772 5.810 5.770 5.698 5.800 6.028 5.858 5.856 5.780 5.752 5.574
##     [85] 5.928 6.142 5.746 5.684 5.954 5.836 5.914 5.732 5.832 6.030 5.762 5.802
##     [97] 5.740 5.886 5.800 5.724 5.738 5.944 5.898 5.968 6.000 5.648 5.802 5.966
##    [109] 5.968 5.924 5.930 6.062 5.852 5.810 5.932 5.870 6.014 5.832 5.982 6.170
##    [121] 5.858 5.772 5.804 5.894 5.676 5.816 5.964 5.752 5.804 5.870 5.890 5.824
##    [133] 5.734 5.878 5.894 5.938 6.064 5.894 5.910 5.962 5.886 5.710 5.788 5.752
##    [145] 5.806 5.972 5.658 5.894 5.984 5.996 5.846 5.874 5.972 5.890 5.864 5.828
##    [157] 5.812 6.094 5.832 5.652 6.002 5.904 5.782 5.912 5.904 5.798 5.822 5.802
##    [169] 5.844 6.026 5.882 5.636 6.018 5.482 5.672 5.882 5.716 5.644 5.852 5.856
##    [181] 5.912 5.842 5.888 5.716 5.902 5.782 5.798 5.626 6.000 5.842 5.740 5.960
##    [193] 5.810 6.048 6.060 5.846 5.772 5.882 5.814 5.810 5.958 5.766 5.866 5.636
##    [205] 5.946 5.776 5.856 5.794 5.812 5.890 5.828 5.728 5.846 5.888 5.670 5.974
##    [217] 5.936 5.718 5.882 5.856 5.956 5.650 5.980 5.770 5.864 6.004 5.510 5.822
##    [229] 5.982 5.906 5.592 5.884 6.144 5.716 5.844 5.752 5.794 5.694 5.836 5.992
##    [241] 5.732 5.772 6.040 5.726 6.014 5.990 5.610 5.720 5.874 5.614 5.630 5.794
##    [253] 5.804 5.764 5.928 5.762 5.866 5.872 5.734 5.864 5.796 5.712 5.678 5.982
##    [265] 5.858 5.924 5.848 5.742 5.832 5.856 6.006 5.844 5.978 5.858 6.034 5.792
##    [277] 5.856 5.854 5.804 5.818 6.032 5.874 5.804 5.798 5.808 5.816 5.768 5.838
##    [289] 5.908 5.758 5.786 5.894 5.784 5.926 5.880 6.042 5.762 5.886 5.990 5.914
##    [301] 5.706 5.716 5.982 5.664 5.822 5.770 5.748 5.728 5.834 5.754 5.914 5.894
##    [313] 5.640 5.880 5.966 5.800 5.806 5.770 5.634 5.722 6.032 5.828 5.812 6.006
##    [325] 5.810 5.830 6.006 6.124 5.922 5.836 5.938 6.100 5.990 5.764 5.910 5.712
##    [337] 5.702 5.824 5.776 5.880 5.756 5.718 5.842 5.900 5.800 5.846 5.838 5.876
##    [349] 5.814 5.740 5.866 5.904 5.760 5.860 5.830 5.974 6.062 5.698 5.794 5.880
##    [361] 5.852 5.630 5.730 6.006 5.968 6.054 5.844 5.806 5.926 5.752 5.950 5.796
##    [373] 5.904 5.758 5.892 5.744 5.786 5.992 5.792 5.612 5.642 5.896 6.002 5.822
##    [385] 5.906 5.692 5.736 5.862 5.566 5.746 5.808 5.806 6.028 5.932 5.930 5.784
##    [397] 5.902 5.740 5.758 5.762 5.806 5.614 5.612 5.838 5.764 5.938 5.926 6.062
##    [409] 5.866 5.862 5.776 6.094 5.772 5.894 5.814 5.700 5.840 5.626 5.922 5.910
##    [421] 5.914 5.816 5.968 5.968 5.776 5.794 6.038 5.966 5.926 5.846 5.590 5.688
##    [433] 5.752 5.814 5.990 5.894 5.862 5.958 5.888 5.972 5.832 5.676 5.990 5.994
##    [445] 5.794 5.744 6.080 5.966 5.926 5.860 5.882 6.038 5.706 5.892 5.924 5.828
##    [457] 5.896 5.972 6.054 5.908 5.932 5.856 5.702 6.022 5.960 6.026 5.802 5.944
##    [469] 5.876 5.808 5.884 6.108 5.882 5.774 5.954 5.894 5.826 5.768 5.760 5.738
##    [481] 5.688 5.782 5.842 5.754 5.768 5.848 5.872 5.890 5.754 5.780 5.812 5.878
##    [493] 5.850 5.890 5.762 5.780 6.060 5.784 5.936 5.810 5.990 6.062 5.570 5.888
##    [505] 5.822 5.846 5.756 5.886 5.664 5.802 5.610 5.780 5.770 5.828 5.664 5.936
##    [517] 6.048 5.936 6.006 5.858 5.698 5.722 5.930 5.934 5.856 5.886 5.836 5.790
```

```
## [529] 5.778 5.676 5.814 5.634 5.758 5.652 5.716 5.838 6.082 5.862 5.908 5.556
## [541] 5.812 5.812 5.650 5.912 5.638 5.824 5.808 5.490 5.828 5.952 5.638 5.790
## [553] 5.550 5.992 5.912 5.706 5.862 5.496 6.042 5.978 5.866 5.876 5.844 5.938
## [565] 5.808 5.722 5.872 5.690 5.802 5.772 5.570 5.826 5.860 5.670 5.902 5.824
## [577] 5.650 5.850 5.862 6.008 5.848 5.696 5.854 6.014 5.872 5.844 5.580 5.888
## [589] 5.874 5.656 5.766 5.994 5.794 5.740 5.780 5.872 5.978 6.042 5.778 5.836
## [601] 5.882 5.818 5.698 5.760 5.770 5.678 5.824 5.906 5.796 5.846 5.768 5.898
## [613] 5.764 5.920 5.738 5.918 5.858 5.900 6.066 6.050 5.646 5.834 6.002 5.908
## [625] 5.798 5.976 5.814 5.846 5.678 5.698 6.002 5.922 5.792 6.032 5.908 5.962
## [637] 5.914 5.902 5.758 5.964 6.062 5.770 5.654 5.962 5.828 5.866 5.808 5.940
## [649] 5.960 5.854 5.842 5.810 5.970 5.748 5.860 6.014 5.966 5.876 5.790 5.806
## [661] 5.930 6.028 6.102 5.658 5.890 5.824 5.830 5.870 6.014 5.992 5.692 6.118
## [673] 5.894 5.990 5.728 5.742 5.770 5.712 5.818 5.902 5.776 5.754 5.940 5.620
## [685] 5.840 6.020 6.042 5.750 5.850 5.888 5.748 5.684 6.106 5.790 5.666 5.984
## [697] 5.848 5.808 5.822 5.778 5.772 5.816 5.784 6.034 5.964 5.584 5.736 5.766
## [709] 5.804 5.812 6.166 6.044 5.910 5.926 5.736 6.062 5.652 5.950 5.906 5.918
## [721] 5.674 5.900 5.984 5.684 5.934 5.758 6.056 5.880 5.902 5.952 5.992 5.608
## [733] 5.806 5.890 6.032 5.784 5.842 5.960 5.730 5.842 6.138 5.948 6.070 5.754
## [745] 5.910 5.642 5.844 5.982 5.668 5.774 5.780 5.948 5.702 5.982 5.680 5.754
## [757] 6.054 5.906 5.762 5.856 5.818 5.880 5.756 5.882 5.736 5.876 5.776 5.760
## [769] 5.930 5.680 5.988 5.898 5.944 6.024 5.832 5.852 5.842 5.642 5.838 5.828
## [781] 5.866 5.746 5.756 5.910 5.782 5.664 5.760 5.950 6.282 6.230 5.694 5.888
## [793] 5.744 5.832 5.876 5.690 5.720 5.960 5.984 5.844 5.654 5.776 5.846 5.886
## [805] 5.796 5.806 5.816 5.864 5.642 5.824 5.770 5.932 5.770 5.798 5.626 5.752
## [817] 5.868 5.850 5.926 5.810 6.026 5.930 5.754 6.028 5.908 5.850 5.934 5.812
## [829] 5.678 5.824 5.932 5.784 5.706 5.844 5.932 5.920 5.824 5.934 5.914 5.844
## [841] 5.928 5.804 5.784 5.706 5.772 5.868 6.038 5.946 5.800 5.792 5.900 5.624
## [853] 6.052 5.808 5.810 5.804 5.868 5.868 5.670 5.614 5.842 6.010 5.974 5.920
## [865] 5.922 5.748 6.056 5.904 5.822 5.992 5.956 6.012 5.698 5.640 5.920 5.824
## [877] 5.950 5.550 5.922 5.680 6.086 5.904 5.780 5.706 5.686 5.720 5.886 5.776
## [889] 5.828 5.834 5.710 5.836 5.864 5.766 6.010 5.808 5.698 5.802 5.664 5.752
## [901] 5.766 5.904 5.660 5.722 5.900 5.914 5.858 5.666 5.744 6.022 5.872 5.846
## [913] 5.846 5.656 6.086 5.736 5.904 5.728 5.720 5.850 5.834 5.992 5.836 5.922
## [925] 5.878 5.850 5.652 5.556 5.896 5.906 5.686 5.858 5.904 5.758 5.938 5.672
## [937] 5.878 5.790 5.848 5.780 5.806 5.732 5.822 5.950 5.924 5.812 5.668 5.900
## [949] 5.618 5.894 5.900 5.918 5.876 5.638 5.878 5.888 5.900 5.940 5.796 6.062
## [961] 5.702 5.834 5.640 5.802 5.856 5.860 5.888 5.936 5.676 5.862 5.732 5.952
## [973] 5.912 5.708 5.796 5.754 5.996 5.732 5.848 5.790 5.952 5.950 5.844 5.722
## [985] 5.974 5.804 5.838 5.702 5.794 5.834 5.792 5.928 5.630 5.826 5.808 5.984
## [997] 5.750 5.858 5.864 5.892
```

```
means_list_4 <- replicate(n = 3000,
  expr = mean(
    sample(df$Sepal.Length,
      size = 50,
      replace=TRUE)))
means_list_4
```

```
## [1] 5.680 5.984 5.522 5.752 5.942 5.816 5.796 6.066 5.846 5.958 5.760 5.734
## [13] 5.664 5.810 5.922 5.766 5.958 5.600 5.946 5.936 5.636 5.948 5.674 5.832
## [25] 5.870 5.718 5.644 5.760 6.040 5.880 5.912 5.576 5.662 5.844 5.756 5.886
## [37] 5.850 5.790 6.130 5.964 5.884 5.820 5.862 5.938 5.910 5.810 5.734 6.062
## [49] 5.930 5.872 5.786 5.806 5.884 5.722 5.822 5.846 5.826 6.000 5.900 5.932
## [61] 5.810 5.838 5.848 5.914 5.930 5.928 6.038 5.738 6.042 5.866 5.900 5.768
```

##	[73]	5.962	5.768	5.790	5.834	5.736	5.670	5.678	5.944	6.218	5.850	5.908	5.858
##	[85]	5.894	5.894	5.914	5.806	5.928	5.934	5.832	5.758	5.706	5.874	5.826	5.774
##	[97]	5.756	5.862	5.872	6.002	5.830	5.702	5.802	5.750	5.694	5.708	5.818	5.830
##	[109]	5.912	5.812	5.730	5.988	5.712	5.834	5.716	5.662	5.870	5.946	5.844	5.792
##	[121]	5.780	5.936	5.788	6.012	5.890	5.746	5.740	6.026	6.070	5.694	5.778	5.776
##	[133]	6.040	5.922	5.700	5.746	5.778	5.604	5.742	5.698	5.592	5.796	5.844	5.924
##	[145]	6.004	5.758	6.074	5.934	5.794	5.850	5.844	5.898	5.742	5.890	5.780	5.778
##	[157]	5.922	5.760	5.574	5.888	5.868	5.802	5.948	5.814	5.744	5.822	5.938	5.858
##	[169]	5.870	5.840	5.928	5.898	5.768	5.786	5.994	5.926	5.882	5.704	6.060	5.748
##	[181]	5.994	5.862	5.804	5.872	5.680	5.794	5.728	5.836	5.772	5.828	5.864	6.042
##	[193]	5.780	5.954	5.784	5.728	6.008	5.602	5.878	5.892	5.668	5.946	5.720	5.898
##	[205]	5.956	5.986	5.624	5.814	5.902	5.772	6.138	5.814	5.674	5.830	5.738	6.052
##	[217]	5.678	5.872	6.056	6.082	6.022	5.752	5.614	5.938	5.626	5.818	5.790	5.864
##	[229]	5.834	6.016	5.936	5.806	5.750	5.682	5.830	5.910	5.834	5.980	5.880	5.808
##	[241]	5.920	5.872	5.836	5.926	5.928	5.732	5.706	5.778	5.960	5.806	5.640	5.766
##	[253]	5.754	5.878	5.752	5.722	5.840	5.848	5.854	5.670	5.788	5.706	5.852	5.726
##	[265]	5.558	6.106	5.620	5.738	5.856	5.836	5.778	5.800	6.172	5.866	5.956	5.780
##	[277]	5.920	5.812	5.868	5.854	5.970	5.860	5.866	5.860	5.926	5.880	5.738	5.936
##	[289]	5.856	5.808	6.002	6.028	5.776	5.592	5.730	5.646	6.010	5.664	5.958	5.880
##	[301]	5.840	6.064	5.774	5.812	5.916	5.702	5.856	5.738	5.672	5.860	5.820	5.772
##	[313]	5.698	5.786	5.794	5.628	5.812	5.798	5.816	6.050	6.000	5.864	5.878	5.822
##	[325]	5.820	5.872	5.912	5.720	5.998	5.756	5.690	5.810	5.804	5.736	5.808	5.754
##	[337]	5.754	5.958	6.044	5.668	5.800	5.842	5.910	5.850	5.870	5.734	5.776	5.736
##	[349]	6.016	5.864	5.926	6.038	5.950	5.938	5.800	5.884	5.780	5.888	5.722	5.844
##	[361]	5.998	5.758	5.902	5.896	5.840	5.776	5.814	5.960	5.760	5.836	5.786	5.892
##	[373]	5.770	5.672	5.970	5.898	5.804	5.720	5.814	6.136	5.830	5.678	5.980	6.022
##	[385]	5.848	5.688	5.892	5.880	5.666	5.732	5.644	5.622	5.690	5.686	5.996	5.962
##	[397]	5.940	5.908	5.808	6.064	6.002	5.850	5.936	5.712	6.058	5.930	5.790	5.968
##	[409]	5.734	5.754	5.916	5.880	5.888	5.822	5.828	5.876	6.030	5.716	5.852	5.826
##	[421]	5.836	6.112	5.780	5.722	5.968	5.718	5.770	5.824	5.896	5.818	5.678	5.822
##	[433]	5.902	5.828	5.718	5.916	6.056	5.718	5.850	5.844	6.012	5.858	5.802	5.836
##	[445]	6.016	6.130	5.668	5.730	5.656	5.722	6.008	5.584	5.674	6.042	5.874	5.842
##	[457]	5.826	5.876	5.944	5.988	5.986	5.798	6.106	5.986	5.642	5.796	5.736	5.912
##	[469]	5.800	5.966	5.794	5.556	5.848	5.756	5.830	5.838	5.886	5.918	5.534	6.042
##	[481]	5.808	5.658	5.840	5.954	5.928	5.740	5.924	5.916	5.750	5.966	6.060	5.646
##	[493]	5.856	5.928	6.032	5.732	5.994	5.818	5.926	5.708	5.964	5.832	5.756	5.730
##	[505]	5.782	5.840	5.812	5.856	5.878	5.974	5.916	5.832	5.786	5.674	5.734	5.836
##	[517]	5.982	5.790	5.700	5.988	5.862	5.800	5.770	5.794	5.816	5.898	5.874	6.058
##	[529]	5.880	5.876	6.134	5.628	6.028	5.906	5.726	5.734	5.760	6.108	5.874	5.800
##	[541]	5.768	5.734	5.814	5.822	5.936	5.760	5.898	5.860	5.986	5.844	5.998	5.920
##	[553]	5.672	6.066	5.842	5.698	5.834	6.088	5.740	5.744	5.648	5.968	5.788	5.942
##	[565]	5.770	5.746	5.848	5.778	5.482	5.708	5.784	6.000	5.604	5.892	5.828	5.696
##	[577]	5.650	5.798	5.928	5.914	5.848	5.712	5.834	5.652	5.840	5.982	5.860	5.882
##	[589]	6.038	5.752	5.902	6.004	5.820	5.576	5.946	5.728	5.738	5.900	6.190	5.932
##	[601]	5.644	5.976	5.910	5.760	5.950	5.670	5.798	5.804	5.894	5.902	5.748	5.866
##	[613]	5.832	5.900	5.984	5.910	5.800	5.768	5.732	5.796	5.952	5.958	5.844	5.970
##	[625]	5.706	5.910	6.098	5.946	5.960	5.782	5.846	5.700	5.800	6.078	5.776	5.772
##	[637]	6.080	5.726	5.952	5.812	5.882	5.874	5.788	5.804	5.916	5.974	5.656	5.868
##	[649]	5.904	5.922	5.872	5.918	5.844	5.880	5.936	5.872	5.740	5.852	5.792	5.868
##	[661]	5.948	5.900	6.138	5.866	5.892	5.748	5.848	5.922	5.638	5.950	5.822	5.732
##	[673]	5.710	5.800	5.996	5.776	5.880	5.898	5.884	5.778	6.056	5.834	6.018	5.846
##	[685]	5.882	5.850	5.920	5.770	5.754	6.016	5.812	5.900	6.020	5.784	5.740	5.776
##	[697]	5.836	5.792	5.948	5.794	5.884	5.678	5.728	5.882	5.584	5.866	5.994	5.844
##	[709]	5.756	5.682	5.726	6.000	6.028	5.776	5.764	5.940	5.748	5.780	5.892	5.984

##	[721]	5.968	5.888	5.916	5.854	5.714	5.926	5.630	5.724	5.726	5.756	5.824	5.692
##	[733]	6.014	5.840	5.776	5.812	5.816	5.826	5.846	5.900	5.896	5.832	5.906	5.706
##	[745]	6.174	5.882	5.912	6.018	5.602	5.806	5.760	5.794	6.066	5.622	5.838	5.728
##	[757]	5.654	5.598	6.070	5.748	5.826	5.764	5.850	6.008	5.780	5.866	5.850	5.784
##	[769]	5.734	5.834	5.726	5.932	6.010	5.676	5.994	5.998	5.940	5.786	5.884	6.186
##	[781]	5.966	5.984	5.744	5.816	5.938	5.808	5.676	5.856	5.950	5.660	5.844	5.800
##	[793]	5.980	5.784	5.740	5.788	5.744	5.882	5.904	5.646	5.862	5.770	5.732	5.760
##	[805]	5.884	6.028	5.908	5.838	6.036	5.918	5.898	5.938	6.058	5.798	5.630	5.828
##	[817]	5.880	5.786	5.744	5.832	6.016	5.918	5.938	5.774	5.984	5.618	5.822	5.994
##	[829]	5.726	5.958	6.000	5.856	5.894	5.780	5.854	5.836	5.784	5.978	5.868	5.936
##	[841]	5.704	5.904	5.818	5.866	5.774	5.954	5.782	6.072	5.732	5.912	5.776	5.770
##	[853]	5.902	5.734	6.014	6.010	5.950	5.834	5.744	6.076	5.856	6.064	5.928	5.896
##	[865]	6.100	5.926	5.686	5.836	5.768	5.708	5.814	5.820	5.776	5.978	5.708	5.736
##	[877]	5.614	5.772	5.778	5.798	5.894	6.052	5.622	5.892	5.750	5.894	5.664	5.958
##	[889]	5.848	5.896	5.926	5.830	5.810	5.780	6.094	5.884	6.036	5.854	5.916	5.698
##	[901]	5.676	5.844	5.842	5.934	5.726	5.840	5.656	5.950	5.988	5.744	5.896	6.156
##	[913]	5.764	5.834	5.866	6.068	5.794	5.716	5.892	6.028	5.966	5.942	5.734	5.798
##	[925]	5.808	5.676	5.982	6.146	5.948	5.690	5.694	5.948	5.790	5.904	5.888	5.844
##	[937]	5.858	5.862	5.666	5.970	5.906	5.848	6.006	5.908	5.884	5.990	5.708	5.874
##	[949]	5.822	5.922	5.878	5.982	5.836	6.014	5.950	6.072	5.632	6.028	5.914	5.708
##	[961]	5.784	5.944	5.904	6.104	5.906	5.752	5.576	5.858	5.914	5.728	5.956	5.848
##	[973]	5.936	5.942	5.776	5.872	5.754	6.004	5.726	5.974	5.878	5.872	5.932	5.992
##	[985]	5.956	5.972	5.640	5.764	5.918	5.716	5.784	5.846	5.994	5.828	5.774	5.820
##	[997]	5.750	5.636	5.826	5.830	5.818	5.810	5.768	5.724	6.136	5.652	5.946	5.816
##	[1009]	5.590	5.918	5.716	5.826	5.880	5.782	5.828	5.764	5.858	6.054	5.780	5.618
##	[1021]	5.738	5.822	5.606	5.734	5.776	5.904	5.930	5.916	5.798	5.790	5.872	5.724
##	[1033]	6.032	5.830	5.818	5.934	5.680	5.678	5.602	5.732	6.046	5.846	5.692	5.790
##	[1045]	5.918	5.622	6.038	5.712	5.954	5.758	5.694	5.942	5.812	5.824	5.876	5.618
##	[1057]	5.770	5.880	5.794	5.752	5.918	5.858	6.074	5.938	5.812	5.732	5.624	5.760
##	[1069]	5.704	5.698	5.798	5.916	5.810	5.760	5.730	5.856	5.942	6.016	5.944	5.692
##	[1081]	5.608	5.816	5.744	5.756	5.842	5.706	6.010	5.828	5.864	5.740	5.836	5.744
##	[1093]	5.952	5.772	5.836	6.032	6.120	5.854	5.772	6.000	5.876	5.894	5.754	5.898
##	[1105]	5.730	6.140	6.104	5.712	5.720	5.840	5.940	5.830	5.802	5.972	6.028	6.168
##	[1117]	5.760	5.884	5.900	5.946	5.702	5.896	5.940	5.834	5.820	5.658	5.594	5.814
##	[1129]	5.762	5.862	5.734	5.826	5.884	5.818	5.672	5.862	5.928	5.932	6.036	5.964
##	[1141]	5.706	5.682	5.960	5.774	5.890	5.818	5.962	5.858	5.940	5.910	5.840	5.708
##	[1153]	5.842	5.842	5.812	5.868	5.758	5.926	5.714	5.798	5.656	5.862	5.606	6.074
##	[1165]	5.902	5.758	5.806	5.958	5.916	5.778	5.940	5.904	5.794	5.964	5.680	6.152
##	[1177]	5.796	5.770	5.738	5.702	6.034	5.726	5.896	5.736	5.852	5.804	5.876	5.890
##	[1189]	5.770	5.666	5.992	5.828	5.982	5.736	5.966	5.878	6.016	5.844	5.576	5.776
##	[1201]	5.838	5.732	5.912	5.892	5.766	5.794	5.494	5.982	6.048	5.862	5.794	5.708
##	[1213]	5.698	5.810	5.860	5.680	5.726	5.736	5.854	5.828	5.678	5.716	5.858	5.808
##	[1225]	5.828	5.818	5.740	5.876	5.710	5.828	5.928	5.784	5.962	5.718	5.826	5.932
##	[1237]	5.802	5.830	5.948	5.956	5.738	5.710	6.036	5.936	5.744	5.798	5.728	5.644
##	[1249]	5.858	5.922	5.686	5.900	5.986	5.936	5.852	5.798	5.858	5.772	5.758	5.836
##	[1261]	5.836	5.878	5.784	5.746	5.652	5.886	5.858	5.992	5.952	5.824	5.914	6.000
##	[1273]	5.874	5.724	5.950	5.858	5.968	5.762	5.792	5.914	5.948	5.492	5.748	5.668
##	[1285]	5.660	5.934	5.662	5.770	5.854	5.720	5.548	6.026	5.890	5.638	5.654	5.930
##	[1297]	5.570	5.822	5.928	5.824	6.086	6.068	5.978	5.636	5.854	5.840	5.656	5.958
##	[1309]	6.008	5.756	5.894	5.824	5.860	5.722	5.782	5.950	5.932	5.906	5.714	5.700
##	[1321]	5.806	5.840	5.676	5.910	5.950	5.796	5.756	5.784	5.752	5.950	5.810	5.778
##	[1333]	5.972	5.976	5.758	5.596	6.132	5.842	5.880	5.888	5.860	5.882	5.926	5.932
##	[1345]	5.728	5.754	5.972	5.884	5.876	5.826	5.736	5.740	5.898	5.790	5.740	5.696
##	[1357]	5.866	5.790	5.786	5.768	5.994	5.890	5.726	5.870	5.672	5.778	5.930	5.930

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 ## [1825] 5.942 5.676 5.766 5.652 5.838 5.684 5.694 5.932 5.746 5.908 5.840 5.754
 ## [1837] 5.694 5.746 6.106 5.934 5.778 5.780 5.816 5.982 5.946 5.854 5.730 5.834
 ## [1849] 5.928 5.936 5.844 5.762 5.826 6.016 5.884 5.976 5.738 5.828 5.730 5.748
 ## [1861] 6.040 5.802 5.928 5.912 5.642 5.942 6.026 5.994 5.904 5.872 5.682 5.744
 ## [1873] 5.872 5.780 5.886 5.706 5.820 5.968 5.790 5.978 5.866 5.858 6.066 5.784
 ## [1885] 5.718 5.918 5.840 5.890 5.962 5.928 6.170 5.906 6.050 5.738 5.768 5.922
 ## [1897] 5.858 6.100 5.728 5.852 5.688 5.696 5.812 5.868 6.044 5.826 5.826 5.886
 ## [1909] 5.740 5.910 5.780 5.802 5.846 5.850 5.830 5.808 5.700 5.984 5.738 5.912
 ## [1921] 5.950 5.896 6.014 5.862 5.870 5.944 5.920 5.814 5.780 5.882 5.634 5.936
 ## [1933] 5.814 5.908 5.890 5.870 5.952 6.078 5.796 5.802 5.924 5.860 5.614 5.788
 ## [1945] 5.808 5.664 5.824 5.608 5.936 5.956 5.878 5.650 5.776 5.846 5.864 5.766
 ## [1957] 5.866 5.692 5.752 5.822 5.742 5.706 5.806 5.886 5.644 6.062 5.770 6.050
 ## [1969] 5.964 5.994 5.934 5.806 5.704 5.892 5.880 5.894 5.944 5.824 5.938 6.016
 ## [1981] 5.950 6.000 6.060 5.802 5.872 5.902 5.862 5.782 5.866 6.006 5.716 5.844
 ## [1993] 5.828 6.092 5.800 5.894 5.630 5.894 5.954 5.916 5.860 5.954 5.752 5.898
 ## [2005] 5.838 5.740 5.828 5.894 5.848 5.826 5.734 5.896 5.756 5.844 5.774 5.852

##	[2017]	5.922	5.748	5.846	5.758	5.728	5.870	5.752	5.820	5.902	5.852	6.120	5.796
##	[2029]	5.956	6.028	5.984	5.864	5.832	5.836	5.720	5.810	5.830	5.884	5.838	6.062
##	[2041]	5.830	6.032	5.876	5.778	5.900	5.730	5.730	5.972	5.920	5.940	6.122	5.750
##	[2053]	5.894	5.894	6.008	6.068	5.982	5.882	5.898	5.702	5.796	5.872	5.688	5.700
##	[2065]	5.700	6.008	5.956	6.120	5.828	5.872	5.732	5.978	5.872	5.788	5.970	5.714
##	[2077]	5.908	5.912	5.920	5.638	5.720	5.962	5.792	5.696	5.920	5.774	5.868	5.886
##	[2089]	6.000	6.016	5.954	5.890	5.638	5.732	5.914	5.754	5.928	5.876	5.802	5.716
##	[2101]	5.916	5.652	5.818	5.798	5.930	5.968	5.702	5.972	5.768	5.906	5.710	5.856
##	[2113]	5.830	5.764	5.736	5.928	5.646	5.908	5.828	5.902	5.742	5.762	5.788	5.808
##	[2125]	5.782	5.826	5.782	5.940	5.910	5.816	5.810	5.822	5.818	5.788	5.608	5.876
##	[2137]	6.066	5.974	5.912	5.764	6.016	5.752	5.730	5.790	5.916	5.740	5.652	5.814
##	[2149]	5.690	5.832	5.820	5.950	5.890	5.838	5.930	5.832	5.942	5.844	5.882	5.796
##	[2161]	5.924	6.028	5.940	5.874	5.744	5.734	5.878	5.748	5.916	5.888	5.714	5.752
##	[2173]	5.858	5.700	6.020	5.774	5.806	5.910	5.832	5.672	5.856	5.740	5.790	5.846
##	[2185]	5.688	5.966	5.702	5.904	5.650	5.834	6.138	5.926	5.810	5.650	5.816	5.802
##	[2197]	5.926	5.988	5.848	5.622	5.810	5.982	5.892	5.830	5.842	5.950	5.916	5.832
##	[2209]	5.868	5.824	5.762	5.640	5.892	5.810	6.066	5.596	6.032	5.826	5.922	5.834
##	[2221]	5.706	5.946	5.724	5.884	5.588	5.874	5.686	5.962	5.710	5.794	5.862	5.956
##	[2233]	5.628	5.682	5.674	5.856	5.980	5.816	5.850	5.758	5.928	5.958	5.806	5.750
##	[2245]	5.954	5.818	5.816	5.940	5.878	5.934	5.844	5.724	5.846	5.872	5.592	5.940
##	[2257]	5.804	5.768	5.676	5.694	5.852	5.758	5.696	5.968	5.762	5.878	5.720	5.876
##	[2269]	5.802	5.950	5.904	5.956	5.802	6.024	5.608	5.838	5.890	5.806	5.982	5.732
##	[2281]	5.786	5.848	5.928	6.070	5.710	5.774	5.872	5.854	5.800	5.726	5.950	6.078
##	[2293]	5.848	5.792	5.858	5.782	5.914	6.012	5.630	5.750	5.818	5.758	5.912	5.952
##	[2305]	5.764	5.854	5.962	5.878	5.858	5.710	5.778	5.882	5.708	6.012	6.026	5.990
##	[2317]	5.908	6.072	5.854	5.954	5.788	5.968	5.702	5.862	5.670	5.964	5.804	5.726
##	[2329]	5.942	5.884	5.690	5.824	5.930	5.808	5.692	5.806	5.912	6.004	6.040	5.818
##	[2341]	5.806	5.776	5.844	5.800	5.746	5.878	5.866	5.792	5.746	5.996	5.750	5.844
##	[2353]	5.856	5.720	5.772	5.938	5.934	5.960	6.006	6.118	5.740	5.918	6.188	5.884
##	[2365]	5.996	5.976	5.756	5.886	5.942	5.826	5.938	5.860	5.708	5.900	5.612	5.978
##	[2377]	5.532	5.670	5.866	5.852	5.884	5.892	5.918	5.758	5.748	5.970	6.118	5.706
##	[2389]	5.776	5.904	5.862	5.884	5.658	5.980	5.876	5.964	5.736	5.778	5.728	5.792
##	[2401]	5.752	6.036	5.774	5.916	5.844	6.018	5.784	5.754	5.908	6.082	5.912	6.016
##	[2413]	5.702	5.812	6.108	5.816	5.944	5.940	5.764	5.598	5.834	6.016	5.690	5.796
##	[2425]	5.856	5.988	5.804	6.010	5.844	5.928	5.894	5.924	5.966	6.006	5.796	5.976
##	[2437]	5.750	5.758	5.700	5.672	6.046	5.764	6.006	5.824	5.968	5.804	5.756	5.764
##	[2449]	5.656	5.730	5.978	5.832	5.864	5.926	5.846	6.018	6.040	5.830	5.882	5.880
##	[2461]	5.928	5.802	5.828	5.928	5.862	5.814	5.772	5.926	5.980	6.058	5.786	5.796
##	[2473]	5.708	5.896	6.102	6.058	5.968	5.728	5.814	5.818	5.706	5.724	6.022	5.886
##	[2485]	5.788	5.836	5.802	5.824	5.950	6.010	5.868	5.822	5.868	5.964	6.004	5.760
##	[2497]	5.906	5.992	5.864	5.768	5.826	5.810	5.800	6.066	5.852	5.908	6.006	5.892
##	[2509]	6.164	5.758	5.922	5.888	6.012	5.746	6.026	5.686	6.036	5.926	6.066	5.936
##	[2521]	5.762	5.786	5.578	5.866	5.856	5.712	5.810	5.748	5.604	5.954	5.816	5.774
##	[2533]	5.828	5.782	5.670	5.768	5.822	5.904	5.866	5.958	5.770	5.932	5.868	5.962
##	[2545]	5.692	5.824	5.846	5.776	5.758	5.970	5.746	5.906	5.648	5.734	5.742	6.022
##	[2557]	5.944	5.906	6.026	5.768	6.106	5.906	5.818	5.852	5.786	5.992	5.908	5.888
##	[2569]	5.824	5.700	5.704	5.874	5.792	6.024	5.812	5.842	5.668	5.952	6.044	5.970
##	[2581]	5.918	5.650	5.880	5.782	5.908	5.722	5.678	5.738	5.830	5.836	5.808	5.888
##	[2593]	5.928	5.954	5.950	6.110	5.750	5.800	5.854	5.644	5.864	5.866	5.848	5.726
##	[2605]	6.000	5.774	5.818	6.066	5.696	5.882	5.716	5.818	5.702	5.942	5.558	5.616
##	[2617]	5.898	5.738	5.962	5.850	5.794	5.904	5.738	5.854	5.730	5.776	5.658	5.800
##	[2629]	5.820	6.062	5.796	5.868	5.746	6.160	5.806	5.894	5.858	5.834	5.974	5.888
##	[2641]	5.866	5.808	6.006	5.968	5.776	5.684	5.830	6.130	5.748	5.914	5.800	5.754
##	[2653]	5.836	5.786	5.828	5.824	5.872	5.822	5.762	5.726	6.008	5.746	5.724	6.100

```
## [2665] 5.706 5.596 5.898 5.946 5.904 5.862 5.702 5.856 5.942 5.874 5.782 5.952
## [2677] 5.738 6.094 5.810 5.860 5.794 5.622 5.996 5.746 5.776 6.166 5.800 6.028
## [2689] 5.878 5.758 5.786 5.744 5.674 5.664 5.944 5.946 5.516 5.878 5.714 5.738
## [2701] 5.740 5.774 5.974 5.798 5.890 5.880 5.850 5.930 5.886 5.868 5.950 5.642
## [2713] 5.838 5.948 5.910 5.974 5.964 5.994 5.732 5.996 5.836 5.914 6.012 5.766
## [2725] 5.822 5.788 5.646 5.804 5.938 5.840 5.968 5.722 5.858 6.034 5.800 5.848
## [2737] 6.006 5.794 5.880 5.732 5.926 5.898 5.948 5.908 5.724 5.910 5.986 5.924
## [2749] 5.984 5.766 5.922 5.922 6.028 5.952 5.904 5.866 5.846 5.984 5.894 5.784
## [2761] 5.880 5.746 5.844 5.926 6.128 5.630 5.936 5.824 5.904 5.756 5.942 5.846
## [2773] 5.898 5.930 5.898 5.786 5.974 6.014 5.784 5.694 5.802 5.738 5.942 5.832
## [2785] 5.818 5.842 5.604 5.808 6.104 5.970 5.908 5.958 5.594 5.960 5.796 5.858
## [2797] 5.938 5.550 6.004 5.858 5.830 5.814 5.982 5.876 5.880 5.712 5.794 5.902
## [2809] 5.874 5.750 5.870 5.836 5.996 5.764 5.760 5.840 5.788 5.868 5.928 5.920
## [2821] 5.800 5.692 5.862 5.820 5.908 6.016 5.780 5.742 5.838 5.848 5.926 6.004
## [2833] 5.702 5.844 5.860 5.962 5.712 5.670 5.748 5.928 5.720 6.094 5.886 5.850
## [2845] 5.946 5.618 5.882 5.928 5.726 5.556 5.868 5.790 5.750 5.756 5.648 6.016
## [2857] 5.676 5.840 5.860 6.080 5.816 6.072 5.746 5.730 5.752 5.846 5.862 5.896
## [2869] 5.660 5.784 5.808 5.760 6.148 5.810 5.878 5.926 5.730 5.738 5.690 5.994
## [2881] 5.856 5.840 5.674 5.610 5.740 5.686 5.716 5.706 5.872 5.768 5.842 5.794
## [2893] 6.016 6.036 5.672 5.890 6.118 5.966 5.918 5.714 5.956 5.730 5.620 5.566
## [2905] 5.830 5.906 5.856 5.910 5.846 5.818 5.936 5.934 6.086 5.758 5.976 5.690
## [2917] 5.938 5.996 5.988 5.872 5.730 5.856 5.774 5.788 5.744 5.990 5.866 5.746
## [2929] 5.612 5.712 6.124 5.842 5.708 6.100 5.758 5.950 5.948 5.694 5.838 5.786
## [2941] 5.870 5.790 5.762 5.860 5.960 6.056 5.808 5.968 5.828 5.998 5.822 5.886
## [2953] 5.806 5.672 5.684 5.832 5.814 5.952 5.926 5.724 5.802 5.718 5.914 5.856
## [2965] 5.850 5.820 5.904 5.792 5.788 5.876 5.768 5.820 5.734 5.684 5.694 5.924
## [2977] 5.920 5.854 6.008 6.166 5.924 5.910 5.574 5.878 5.832 5.774 5.758 5.794
## [2989] 5.760 5.684 5.786 5.824 5.888 6.012 5.738 5.868 5.892 5.694 5.856 5.858
```

```
means_list_5 <- replicate(n = 10000,
  expr = mean(
    sample(df$Sepal.Length,
      size = 50,
      replace=TRUE)))
means_list_5
```

```
## [1] 5.840 5.616 5.788 5.800 5.844 5.828 5.952 5.812 5.918 5.840 5.924 5.786
## [13] 6.044 5.852 5.734 5.852 5.588 5.730 5.762 5.656 5.906 5.800 5.782 6.048
## [25] 5.772 5.960 5.862 6.006 5.934 6.038 6.044 5.794 5.714 5.906 5.682 5.728
## [37] 5.710 5.918 5.786 5.832 5.888 5.942 5.844 5.888 5.810 5.794 5.826 6.056
## [49] 6.014 5.960 5.838 6.082 5.804 5.872 5.660 5.878 5.788 5.744 5.806 5.960
## [61] 5.928 6.080 5.728 5.452 5.806 5.690 5.660 6.030 5.708 5.870 5.856 5.830
## [73] 5.780 5.836 5.858 5.692 5.694 6.070 6.050 5.682 5.784 5.744 5.622 5.890
## [85] 5.650 5.832 5.960 5.878 5.802 5.844 5.856 5.812 5.896 5.664 6.000 5.890
## [97] 5.780 5.810 5.852 5.860 5.940 5.642 5.754 5.768 5.922 5.610 5.758 5.714
## [109] 5.770 5.642 5.858 5.992 5.884 5.666 6.040 5.736 5.996 5.824 5.814 5.762
## [121] 5.740 5.942 5.976 5.846 5.788 5.904 5.706 6.018 5.932 5.810 5.644 5.640
## [133] 5.738 5.806 6.038 5.946 5.954 5.838 5.668 5.708 5.924 5.760 5.900 5.880
## [145] 5.792 5.836 5.822 5.590 5.876 5.978 5.870 5.958 5.876 5.930 5.654 5.642
## [157] 5.706 5.734 5.838 6.098 5.654 5.814 5.692 5.898 5.710 6.020 5.778 5.664
## [169] 5.746 5.890 5.504 5.894 5.878 5.872 5.864 5.908 5.740 5.656 5.952 5.836
## [181] 5.834 5.724 5.648 5.890 5.810 5.784 5.940 5.906 5.944 6.142 5.718 5.784
## [193] 5.728 5.980 5.858 5.980 5.894 5.692 5.702 5.926 5.984 6.040 5.732 5.764
## [205] 5.762 5.984 5.562 5.722 5.822 5.834 5.938 5.904 5.876 5.846 5.844 5.966
```

##	[217]	5.782	5.936	5.568	5.952	5.922	5.718	5.842	5.926	5.836	5.968	5.704	5.976
##	[229]	5.950	5.762	5.698	5.890	5.734	5.734	5.822	5.836	5.814	6.150	5.804	6.042
##	[241]	5.916	5.758	5.832	5.748	5.896	5.962	5.590	5.898	5.846	5.958	5.838	5.834
##	[253]	5.932	5.868	5.714	5.910	5.742	5.908	5.968	5.890	5.734	5.670	5.786	5.882
##	[265]	5.790	5.872	6.024	6.012	6.022	5.914	5.726	5.894	5.840	5.640	5.714	6.024
##	[277]	5.844	6.018	5.970	5.880	5.902	5.936	5.650	5.826	5.740	5.782	5.814	5.632
##	[289]	5.614	5.888	5.838	5.972	5.920	5.634	5.822	5.948	5.674	5.888	6.054	5.870
##	[301]	5.866	5.764	5.724	5.946	5.950	5.750	5.790	6.024	6.018	5.834	5.738	5.814
##	[313]	5.782	5.788	6.088	5.922	5.864	5.898	5.778	5.764	5.838	5.784	5.832	5.862
##	[325]	5.800	5.822	5.748	5.904	6.006	5.890	5.698	5.922	5.694	5.662	5.718	5.766
##	[337]	5.754	5.962	5.744	5.982	5.774	5.818	5.706	5.936	6.128	6.130	5.986	5.720
##	[349]	5.980	5.692	5.920	6.022	5.826	5.852	5.868	5.818	5.886	5.754	5.870	5.824
##	[361]	5.808	5.794	5.864	5.816	5.666	5.940	5.948	5.892	5.666	6.066	5.870	5.700
##	[373]	5.856	5.836	5.930	5.740	5.576	5.866	5.756	5.934	5.734	5.598	5.676	5.788
##	[385]	5.672	5.776	5.788	5.752	5.814	5.966	5.920	6.028	5.702	5.852	5.974	5.932
##	[397]	6.056	5.694	5.926	6.008	5.944	5.668	6.004	5.780	5.798	5.854	5.854	5.940
##	[409]	5.862	6.088	5.766	5.824	5.862	5.904	6.002	5.896	5.806	5.752	5.782	6.122
##	[421]	5.864	5.932	5.716	6.040	5.938	5.858	5.954	6.204	5.842	5.948	5.880	5.752
##	[433]	5.664	6.068	5.994	5.646	5.896	5.810	6.094	5.908	5.964	5.806	5.812	5.892
##	[445]	5.990	5.866	5.912	5.960	5.716	5.812	5.820	5.908	5.666	5.706	5.928	5.832
##	[457]	5.852	5.594	5.872	5.818	5.852	5.928	5.744	5.742	5.688	5.808	5.858	5.704
##	[469]	5.700	5.854	5.708	5.786	5.596	5.916	5.976	5.768	5.858	5.796	5.738	5.910
##	[481]	5.852	5.928	6.058	5.988	6.092	6.062	5.858	5.966	5.844	5.974	5.848	6.000
##	[493]	5.624	5.888	5.790	5.768	5.730	5.874	5.860	6.082	5.712	5.928	5.764	5.764
##	[505]	5.756	5.770	5.712	5.890	5.778	5.978	5.934	5.862	5.826	5.946	5.652	5.762
##	[517]	5.550	6.060	5.972	5.938	5.820	5.800	5.768	5.748	5.746	5.860	5.964	5.740
##	[529]	5.674	5.666	5.926	5.968	5.906	5.632	5.942	5.900	5.866	5.900	5.992	6.096
##	[541]	5.852	5.658	5.986	5.694	5.856	5.882	5.598	5.768	6.164	5.972	5.948	5.772
##	[553]	5.992	5.866	5.920	5.930	6.084	5.794	5.802	6.140	5.912	5.668	5.944	5.906
##	[565]	5.604	5.784	5.740	5.780	5.736	5.590	5.964	5.800	5.914	5.808	5.576	5.722
##	[577]	5.872	5.856	5.804	5.878	5.892	5.938	5.896	5.914	6.016	5.768	5.874	5.996
##	[589]	5.916	5.870	5.812	5.878	5.812	5.792	5.844	5.846	5.650	5.754	5.794	5.994
##	[601]	5.704	5.870	5.844	5.790	5.938	5.826	5.742	5.808	5.558	5.846	5.914	5.914
##	[613]	5.908	5.742	5.990	5.644	5.686	5.630	5.980	5.642	5.824	5.932	5.666	5.828
##	[625]	5.906	5.964	5.792	5.886	5.934	5.978	5.780	5.700	5.758	5.708	5.936	5.756
##	[637]	5.824	5.862	5.728	5.774	5.798	5.834	5.914	5.948	5.836	5.818	5.902	5.978
##	[649]	5.600	5.912	6.046	5.594	5.906	5.810	5.788	5.784	5.858	5.884	5.840	5.848
##	[661]	5.886	5.770	5.936	5.790	5.906	5.890	5.950	5.738	5.936	6.036	5.882	5.936
##	[673]	5.858	5.904	5.652	5.552	5.798	5.920	5.818	5.940	5.828	5.772	5.814	5.758
##	[685]	5.950	5.952	5.746	5.776	5.858	5.900	6.038	5.710	5.712	5.732	5.754	5.904
##	[697]	6.060	5.984	5.654	5.908	5.864	5.706	6.058	5.810	5.854	5.912	5.796	5.786
##	[709]	5.742	5.852	5.722	5.728	5.724	5.936	5.756	5.772	5.920	5.786	5.788	5.902
##	[721]	5.866	5.806	5.782	5.672	5.816	5.702	6.036	5.682	5.738	5.830	5.760	5.646
##	[733]	5.798	5.700	5.904	5.818	5.970	6.018	5.696	5.858	5.926	5.806	5.722	5.818
##	[745]	5.800	5.922	5.946	5.862	5.844	5.836	5.872	5.762	5.954	5.788	5.906	5.886
##	[757]	5.556	5.750	5.748	5.688	5.748	5.682	6.036	5.682	5.904	5.964	5.980	5.856
##	[769]	5.626	5.860	5.776	5.752	5.826	5.880	5.944	5.794	6.080	6.018	5.674	5.718
##	[781]	5.646	6.032	5.728	5.938	5.690	5.836	5.786	5.846	5.734	5.878	5.836	5.848
##	[793]	5.764	6.020	6.108	5.674	5.660	5.938	5.596	5.900	5.808	5.714	5.686	5.838
##	[805]	5.776	5.798	5.752	5.892	5.808	5.744	5.978	5.990	5.894	5.900	5.790	6.066
##	[817]	5.602	5.634	5.776	6.038	5.960	5.706	5.822	5.980	5.840	5.812	5.644	5.606
##	[829]	5.968	5.920	5.936	5.874	5.858	5.938	6.002	5.900	6.090	5.878	5.832	5.914
##	[841]	5.698	5.894	5.996	5.646	5.696	5.820	5.880	5.762	5.958	5.914	5.756	5.984
##	[853]	5.898	5.890	5.972	5.646	6.046	5.840	5.730	5.908	5.904	5.720	5.912	5.936

##	[865]	5.942	6.038	5.924	5.758	5.996	5.910	5.936	5.818	5.916	5.948	5.782	5.932
##	[877]	5.844	5.772	6.036	5.768	5.864	5.762	5.898	5.776	5.976	5.816	5.820	5.908
##	[889]	5.854	5.866	5.794	5.752	5.892	5.726	5.670	5.934	5.854	5.588	5.888	5.896
##	[901]	5.688	5.650	5.754	5.760	5.754	5.878	5.976	5.844	5.958	5.698	5.846	5.850
##	[913]	5.890	5.916	5.810	5.984	5.796	6.014	5.754	5.906	5.956	5.756	5.714	5.760
##	[925]	5.848	5.944	6.120	5.756	5.732	5.862	5.868	5.882	6.010	6.022	5.874	5.842
##	[937]	5.920	5.890	5.982	5.972	5.712	6.042	5.970	5.798	5.968	5.794	5.892	5.876
##	[949]	5.700	5.924	6.044	5.732	5.806	5.922	5.918	5.962	5.932	5.762	5.686	6.030
##	[961]	5.720	5.818	5.736	5.778	5.770	5.900	5.678	6.026	5.882	6.032	6.016	6.000
##	[973]	6.024	5.924	5.854	5.712	5.854	5.868	5.832	5.818	5.830	5.906	5.756	5.862
##	[985]	5.892	5.916	5.778	5.602	5.962	6.012	5.766	5.640	5.878	5.736	5.808	5.882
##	[997]	6.032	5.928	5.846	5.842	6.060	6.046	5.716	5.748	6.002	5.866	5.696	5.826
##	[1009]	5.732	5.706	5.928	5.874	5.770	5.832	5.776	5.826	5.714	5.786	5.768	5.732
##	[1021]	5.758	5.642	5.784	6.038	5.630	5.792	5.958	5.826	5.756	5.932	5.622	5.768
##	[1033]	5.990	5.802	5.922	5.900	5.764	5.814	6.020	5.922	5.750	5.938	5.884	5.682
##	[1045]	5.876	5.944	5.974	5.790	5.724	5.876	5.748	5.998	5.770	5.776	5.888	5.870
##	[1057]	5.912	6.004	5.732	5.740	5.802	5.762	5.934	5.818	5.956	5.848	5.886	5.958
##	[1069]	5.574	6.048	5.800	5.974	5.884	5.796	5.814	5.796	6.090	5.906	5.950	5.742
##	[1081]	5.928	5.886	6.104	5.628	5.866	5.980	5.892	6.144	5.812	6.146	5.638	5.960
##	[1093]	5.882	5.714	5.560	6.016	5.708	5.612	5.596	5.738	6.046	5.626	5.812	5.950
##	[1105]	5.916	5.914	5.782	5.782	5.966	5.810	5.832	5.684	5.944	5.646	5.698	5.744
##	[1117]	5.720	5.900	6.074	5.998	5.768	5.982	6.126	6.018	5.942	5.922	5.870	5.890
##	[1129]	5.992	5.960	5.754	5.816	6.096	5.688	5.716	5.884	5.706	5.846	6.018	5.922
##	[1141]	5.804	5.822	5.682	5.802	5.972	5.718	5.904	5.876	6.178	5.850	5.848	5.808
##	[1153]	6.116	5.860	5.900	5.604	5.794	5.756	5.886	5.902	5.750	5.642	5.934	5.964
##	[1165]	5.848	5.918	5.930	5.794	5.754	5.962	5.712	5.808	5.892	5.816	5.926	5.634
##	[1177]	5.792	5.712	5.822	5.670	5.972	5.846	5.812	5.808	5.822	5.792	6.060	5.734
##	[1189]	5.918	5.932	5.786	5.542	5.826	6.008	5.864	5.852	5.814	5.854	5.784	5.854
##	[1201]	5.878	5.756	5.752	5.660	5.806	5.952	5.614	5.790	5.860	5.834	5.670	6.046
##	[1213]	6.048	5.790	6.030	5.938	5.780	6.032	5.834	5.858	5.852	5.620	5.908	5.850
##	[1225]	5.944	5.812	5.894	5.740	5.798	5.814	5.888	5.884	5.868	5.802	5.734	5.762
##	[1237]	5.768	5.654	5.792	5.598	5.888	5.720	5.968	6.024	5.890	5.784	5.844	5.820
##	[1249]	5.702	5.832	5.840	5.784	5.844	5.668	5.736	5.920	5.740	5.994	5.878	5.874
##	[1261]	5.868	5.940	5.896	5.902	5.902	5.760	5.888	5.918	5.850	5.926	5.810	5.718
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##	[1309]	6.126	5.824	5.770	6.012	5.792	5.756	5.878	5.962	5.794	6.032	5.718	5.658
##	[1321]	5.962	5.778	6.050	6.066	5.870	5.798	5.838	5.768	5.890	5.942	5.950	6.206
##	[1333]	5.946	5.830	5.850	5.764	5.806	5.644	5.742	5.822	5.818	5.912	5.608	6.068
##	[1345]	5.920	5.842	5.656	5.984	5.924	5.900	5.834	5.688	5.726	5.912	5.720	5.848
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##	[1381]	5.614	5.734	5.994	5.794	6.066	5.744	5.794	6.094	5.716	5.752	5.890	5.586
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##	[1429]	5.892	5.812	5.742	5.752	6.134	5.844	5.932	5.612	5.752	5.848	5.952	5.648
##	[1441]	5.856	5.844	5.686	5.840	5.896	5.808	5.748	6.132	5.710	5.652	5.858	5.868
##	[1453]	5.790	5.974	5.904	5.800	5.588	5.864	5.920	5.786	5.688	5.744	5.882	5.802
##	[1465]	5.746	5.622	5.854	5.646	5.926	5.810	5.892	5.984	5.804	5.680	5.776	5.758
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##	[2185]	5.730	5.962	5.872	5.868	5.828	5.948	5.964	5.732	5.780	5.862	5.762	5.886
##	[2197]	5.834	5.932	5.918	5.924	5.766	5.992	5.784	5.664	5.952	5.826	5.982	5.768
##	[2209]	5.868	5.812	6.000	5.604	5.726	6.130	5.946	5.826	5.890	5.928	5.802	5.868
##	[2221]	5.864	5.694	5.908	5.686	5.788	5.598	5.714	5.914	5.958	5.878	5.868	5.768
##	[2233]	5.748	6.100	5.914	5.660	5.850	5.792	5.896	5.784	5.760	5.860	5.874	5.918
##	[2245]	5.832	5.872	5.844	5.842	5.890	5.814	5.954	5.900	6.044	5.650	5.754	5.750
##	[2257]	5.796	5.850	5.800	6.050	5.962	5.724	5.816	5.846	5.814	5.858	5.810	5.834
##	[2269]	5.700	6.066	5.794	5.968	5.788	5.742	5.832	5.762	5.690	5.836	5.868	5.826
##	[2281]	5.922	5.822	5.786	5.966	5.892	5.966	5.720	5.780	5.882	5.856	5.862	5.756
##	[2293]	5.840	5.720	5.860	5.674	5.716	5.774	5.936	5.720	5.878	5.958	5.956	5.856
##	[2305]	5.790	5.996	5.790	6.084	5.888	5.632	5.822	5.904	6.080	5.680	5.792	5.700
##	[2317]	5.806	6.130	5.660	5.690	5.698	6.038	5.824	6.016	5.692	5.804	5.700	5.728
##	[2329]	5.856	5.798	6.018	5.802	5.874	5.854	5.746	5.706	5.832	5.590	5.636	5.980
##	[2341]	5.718	5.886	5.868	5.642	5.816	5.960	5.782	5.910	5.754	5.818	5.794	5.772
##	[2353]	5.800	6.024	5.744	5.742	5.828	5.950	5.718	6.028	5.682	5.866	5.956	6.028
##	[2365]	5.642	5.908	5.808	6.120	5.908	5.826	5.788	5.716	5.856	5.782	5.882	5.940
##	[2377]	5.888	6.082	6.158	5.896	6.064	5.738	5.802	5.940	5.808	5.956	5.928	6.022
##	[2389]	5.806	6.106	5.824	6.054	5.770	5.894	5.878	5.664	6.022	5.896	5.756	5.910
##	[2401]	5.848	5.766	5.724	6.198	5.966	5.766	5.868	6.058	5.750	5.806	5.762	5.810
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##	[2425]	5.848	5.838	5.720	5.932	5.920	6.000	5.932	6.038	5.838	5.664	5.716	5.772
##	[2437]	5.810	5.820	5.810	5.698	5.880	6.000	5.770	5.720	5.926	5.860	5.672	5.814
##	[2449]	5.780	5.760	5.884	5.926	5.766	5.732	5.624	5.824	5.720	5.964	5.972	5.874
##	[2461]	5.974	5.822	5.960	5.822	5.978	6.018	5.784	5.842	6.000	5.726	5.608	5.714
##	[2473]	5.688	5.672	6.032	6.074	5.902	5.770	5.758	6.006	5.940	6.006	5.852	5.682
##	[2485]	5.626	5.886	5.874	6.066	5.932	5.882	5.976	5.920	5.902	5.902	5.652	5.986
##	[2497]	6.078	5.754	5.926	5.792	5.842	5.882	6.008	5.722	5.682	5.764	5.736	5.888
##	[2509]	5.770	5.910	5.862	5.746	5.802	5.918	5.824	5.922	5.822	5.764	5.860	5.770
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##	[8017]	5.838	5.752	5.966	5.744	6.102	5.850	5.788	5.744	5.884	5.720	5.570	5.892
##	[8029]	5.826	5.874	5.882	5.838	5.782	5.804	5.878	5.664	5.854	5.898	5.936	5.664
##	[8041]	6.030	5.770	5.874	5.752	5.694	5.746	5.738	6.006	5.890	5.906	5.834	5.774
##	[8053]	5.872	5.726	5.930	6.002	5.874	5.952	5.876	5.728	6.034	5.932	5.770	6.000
##	[8065]	5.894	5.800	5.896	5.664	5.756	6.032	5.940	5.908	5.714	5.548	5.858	5.762
##	[8077]	5.784	5.750	5.904	5.866	5.990	5.590	5.848	5.780	5.980	5.976	5.894	5.988
##	[8089]	5.834	5.828	5.752	5.842	5.940	5.836	5.770	5.678	5.756	5.994	5.712	5.830
##	[8101]	5.908	5.704	5.918	5.786	5.908	5.818	5.730	5.890	5.870	5.886	5.768	5.862
##	[8113]	5.764	5.712	5.740	5.786	5.958	5.860	5.760	5.716	5.722	5.830	5.890	5.898
##	[8125]	5.954	5.974	5.640	5.790	5.950	5.866	5.946	5.906	6.102	5.930	5.826	5.998
##	[8137]	5.848	5.960	5.734	5.776	5.918	5.926	5.632	5.786	6.004	5.986	5.858	5.964
##	[8149]	5.890	5.896	5.800	5.894	5.876	5.954	6.042	5.978	5.854	5.742	6.080	5.602
##	[8161]	5.880	5.752	5.852	5.892	5.738	5.840	5.858	5.916	5.920	5.852	5.632	6.074
##	[8173]	5.718	5.836	5.878	5.834	5.758	5.968	5.766	5.944	5.654	6.070	5.782	5.686
##	[8185]	5.874	5.988	5.804	5.760	5.560	5.816	5.708	5.844	5.738	6.016	5.874	5.960
##	[8197]	5.688	5.806	6.058	5.634	5.958	5.762	5.916	5.874	6.010	5.822	5.936	5.858
##	[8209]	5.790	5.866	5.850	5.746	5.772	5.814	5.716	5.748	5.860	5.916	6.002	5.856
##	[8221]	5.934	5.792	5.994	5.704	5.840	5.900	5.968	5.778	6.048	5.836	5.914	5.714
##	[8233]	5.762	5.916	5.760	5.764	5.744	5.738	5.878	5.958	5.960	6.008	5.746	5.652
##	[8245]	5.734	5.772	5.760	5.760	5.872	6.020	5.710	6.028	5.870	5.920	5.740	5.930
##	[8257]	5.962	5.816	5.942	5.692	5.814	5.908	5.872	5.656	6.076	6.012	5.894	5.836
##	[8269]	5.770	5.882	5.744	5.902	5.618	5.964	5.900	6.074	5.756	6.002	5.912	6.144
##	[8281]	5.664	5.932	5.666	5.892	5.726	6.134	5.766	5.854	5.622	5.700	6.056	5.882
##	[8293]	5.894	6.040	5.916	5.596	5.974	5.968	5.798	6.078	5.816	5.574	5.904	5.676
##	[8305]	5.666	5.874	6.010	5.802	5.756	5.834	5.922	5.760	5.796	5.784	5.828	5.876
##	[8317]	5.800	5.958	5.922	5.800	5.790	6.006	6.074	5.982	5.738	5.870	5.858	5.752
##	[8329]	5.820	6.078	5.998	5.990	5.682	5.816	5.588	5.850	5.796	5.848	5.818	5.892
##	[8341]	5.724	5.722	5.856	5.898	5.842	5.710	5.792	5.748	5.816	5.804	5.892	5.780
##	[8353]	5.804	5.740	5.660	5.776	5.900	5.960	5.912	6.018	5.922	5.822	5.900	5.852
##	[8365]	5.832	5.786	5.884	5.768	5.870	5.696	6.120	5.844	5.824	5.848	5.682	5.930
##	[8377]	5.732	5.840	5.810	5.772	5.964	5.764	5.780	5.592	5.892	5.876	5.968	5.770
##	[8389]	5.764	5.974	5.718	5.916	5.966	6.088	5.918	5.690	5.904	5.802	5.916	5.968
##	[8401]	5.684	5.820	5.904	5.756	6.148	5.890	5.632	5.872	5.948	5.890	5.966	5.764
##	[8413]	5.574	5.884	5.942	5.542	5.810	5.966	5.808	5.988	5.852	5.806	5.894	5.928
##	[8425]	5.744	6.136	5.872	5.850	5.686	5.914	5.830	5.818	5.752	5.824	5.890	5.722
##	[8437]	5.864	5.916	5.764	5.766	5.554	5.840	5.754	5.912	5.662	5.704	5.604	5.858
##	[8449]	5.906	5.842	5.672	6.018	5.754	5.900	6.046	5.852	5.810	5.918	5.614	5.776
##	[8461]	5.944	6.020	5.904	5.790	5.870	5.940	5.774	5.966	5.962	5.766	5.776	5.800
##	[8473]	5.704	5.774	5.640	5.802	5.752	5.934	5.808	5.786	5.736	5.824	5.794	5.584
##	[8485]	5.878	5.734	5.736	5.818	5.848	5.918	5.928	5.870	5.768	6.000	5.846	5.792
##	[8497]	5.872	5.674	5.820	5.808	5.642	5.754	5.832	5.862	5.676	5.750	5.702	5.678
##	[8509]	5.946	5.908	5.726	5.718	5.752	6.016	5.646	5.974	5.904	5.796	5.888	5.870
##	[8521]	5.696	6.124	5.840	5.952	5.830	6.054	5.964	5.756	5.796	5.902	5.880	5.946
##	[8533]	5.930	5.770	5.828	5.884	5.976	6.236	5.672	5.738	5.918	5.986	5.876	5.890
##	[8545]	5.836	5.828	5.840	5.652	5.690	5.998	5.724	5.928	5.778	5.692	5.864	5.742
##	[8557]	5.738	5.716	5.990	5.808	5.844	5.754	5.962	5.800	5.846	6.016	5.750	5.766
##	[8569]	5.762	5.752	5.820	5.878	5.770	5.760	5.894	5.878	5.834	5.726	5.732	5.888
##	[8581]	6.162	5.644	5.946	5.858	5.810	5.890	6.042	5.796	5.768	6.128	5.734	5.684
##	[8593]	5.614	5.842	5.682	5.838	5.992	5.736	5.914	5.762	5.754	5.828	5.778	5.832
##	[8605]	5.886	5.920	5.800	5.804	5.814	5.918	5.818	5.898	5.840	5.788	5.742	5.834
##	[8617]	5.626	5.820	5.550	5.698	5.792	5.726	5.826	5.808	5.762	5.896	5.800	5.972
##	[8629]	5.810	5.806	5.588	5.748	6.002	5.842	5.828	5.654	5.622	5.658	5.806	5.868

##	[8641]	5.800	5.710	5.756	5.940	5.688	5.434	5.818	5.616	5.982	5.826	6.048	5.846
##	[8653]	5.762	5.652	6.046	5.692	5.774	6.028	5.612	5.722	5.772	5.938	5.816	5.716
##	[8665]	5.796	5.906	5.682	5.966	5.940	5.956	5.900	5.888	5.744	5.898	5.920	5.770
##	[8677]	5.912	5.932	5.744	5.680	5.712	5.680	5.724	5.864	5.810	5.842	5.680	5.894
##	[8689]	5.696	5.730	5.952	5.762	5.832	5.674	5.614	5.818	5.616	5.840	5.936	5.724
##	[8701]	5.694	5.832	5.606	5.632	5.722	5.866	5.704	5.852	5.852	5.820	5.762	5.748
##	[8713]	5.770	5.782	6.138	5.734	5.870	5.940	5.880	5.828	5.928	6.026	5.816	5.772
##	[8725]	5.780	5.916	5.922	5.894	5.670	5.816	5.740	5.944	5.692	5.962	5.944	5.894
##	[8737]	5.878	6.036	6.072	5.846	5.778	5.748	5.664	5.564	5.762	5.848	6.042	5.780
##	[8749]	5.644	5.786	5.680	5.772	5.876	5.956	5.944	5.890	5.754	5.946	5.976	5.588
##	[8761]	5.882	5.736	5.942	6.014	5.918	5.986	5.810	5.928	5.846	6.034	5.858	5.636
##	[8773]	5.708	6.006	5.796	5.916	5.656	5.868	5.814	5.872	5.832	5.896	5.824	5.968
##	[8785]	5.804	5.924	5.948	5.794	5.738	5.768	5.860	5.782	5.884	5.742	5.748	5.618
##	[8797]	5.848	5.908	5.836	5.904	5.808	5.916	5.722	5.682	5.956	5.764	5.988	5.852
##	[8809]	6.090	5.878	5.828	6.030	5.720	5.762	5.782	5.816	5.582	5.902	6.058	5.774
##	[8821]	5.964	5.794	6.034	5.736	6.084	5.732	5.810	5.790	5.744	5.904	5.732	5.770
##	[8833]	5.814	5.878	5.940	5.892	5.876	5.752	5.750	5.868	5.780	5.874	5.842	5.656
##	[8845]	5.698	5.692	5.860	5.838	5.778	5.706	5.950	6.022	6.060	6.058	5.996	5.792
##	[8857]	5.742	6.098	5.650	5.908	5.908	5.706	5.990	5.858	5.986	5.838	5.884	5.846
##	[8869]	6.026	5.760	5.824	5.678	5.794	5.908	6.042	5.818	5.856	5.736	5.828	5.922
##	[8881]	5.764	5.740	5.802	5.748	5.800	5.912	5.816	5.594	5.534	5.814	5.690	5.902
##	[8893]	5.768	5.850	5.968	6.124	5.850	5.962	5.952	5.798	5.850	5.910	5.832	5.718
##	[8905]	5.988	5.896	5.882	5.946	5.816	5.942	5.812	5.772	5.710	6.010	5.918	5.964
##	[8917]	5.628	6.102	5.972	5.964	6.008	5.836	5.930	5.920	5.812	6.034	5.576	5.796
##	[8929]	5.992	5.906	5.722	5.632	5.798	5.718	5.828	5.906	6.020	5.978	6.014	5.778
##	[8941]	5.878	5.710	5.836	5.732	5.854	5.790	5.900	5.888	5.956	5.798	6.012	5.898
##	[8953]	5.822	5.622	5.764	5.742	5.914	5.840	5.814	5.650	5.588	5.822	5.794	5.858
##	[8965]	5.800	5.628	5.698	5.944	5.788	5.814	5.760	5.902	5.720	5.618	5.846	5.820
##	[8977]	5.712	5.756	5.800	5.916	5.866	5.836	5.714	5.784	5.954	5.816	5.880	5.776
##	[8989]	5.752	5.694	5.872	5.914	5.924	5.680	5.980	5.770	5.904	5.812	5.826	5.892
##	[9001]	5.764	6.158	5.846	5.684	5.878	5.942	5.894	5.938	5.960	5.800	5.910	5.602
##	[9013]	5.830	5.730	5.894	5.858	5.812	5.648	5.828	5.840	5.676	5.748	5.904	5.942
##	[9025]	5.770	5.836	5.942	5.592	6.002	5.870	5.924	5.798	5.792	5.918	5.728	5.810
##	[9037]	5.986	5.780	5.864	5.932	5.836	5.914	5.644	5.920	6.014	6.028	5.902	5.794
##	[9049]	5.846	5.792	5.792	5.876	5.764	5.962	5.972	6.008	5.850	5.768	5.926	5.972
##	[9061]	5.788	5.788	6.038	5.912	6.048	5.746	6.060	5.882	5.892	5.758	5.774	5.838
##	[9073]	5.912	5.808	5.866	5.888	5.766	5.962	5.764	5.800	6.012	5.790	5.866	5.926
##	[9085]	5.868	5.824	5.856	5.850	5.956	5.824	5.836	5.836	5.704	5.592	6.068	5.828
##	[9097]	6.036	5.614	5.912	5.834	6.006	5.882	5.866	6.014	5.820	5.808	5.898	5.936
##	[9109]	5.794	6.124	5.704	5.730	5.644	5.788	5.866	5.926	5.870	5.964	5.724	5.754
##	[9121]	5.890	5.868	5.794	6.140	5.940	5.826	5.970	5.744	5.832	5.986	5.602	5.880
##	[9133]	5.974	5.778	5.614	6.030	5.944	5.892	5.806	5.760	5.744	5.750	5.936	5.760
##	[9145]	5.968	5.902	5.830	5.814	5.938	5.906	5.654	5.888	5.578	5.714	5.824	5.680
##	[9157]	5.898	5.904	5.676	5.932	6.084	5.886	5.984	5.876	5.772	5.768	5.852	5.714
##	[9169]	5.762	5.728	5.810	5.874	5.836	5.830	5.844	5.822	5.936	5.922	5.902	5.966
##	[9181]	5.810	5.786	5.776	5.962	5.778	5.888	5.746	5.906	5.802	5.758	5.984	5.832
##	[9193]	5.870	5.710	5.882	5.644	6.044	5.882	5.850	5.814	6.078	5.988	6.058	5.952
##	[9205]	5.766	5.856	5.878	5.898	5.834	5.828	5.788	5.928	5.838	5.722	5.908	5.800
##	[9217]	5.860	5.912	5.918	5.918	5.784	5.990	5.816	6.044	5.848	5.742	5.720	5.792
##	[9229]	5.760	5.808	5.882	5.872	5.698	5.950	5.922	5.708	5.776	5.742	5.768	5.780
##	[9241]	5.798	6.014	5.794	5.630	6.018	6.002	5.734	5.922	5.884	6.038	5.604	5.844
##	[9253]	5.894	5.932	5.766	5.900	5.820	5.938	5.708	5.900	5.772	5.990	5.946	5.674
##	[9265]	5.802	5.770	5.810	6.050	6.040	5.946	5.702	5.768	5.562	5.850	5.924	5.870
##	[9277]	5.746	6.018	5.800	5.668	5.692	5.904	5.734	5.908	5.822	5.930	5.870	6.006

```

## [9289] 5.946 5.844 5.754 5.892 5.920 5.816 5.730 5.718 5.918 5.894 6.058 5.752
## [9301] 5.932 5.768 5.776 5.832 6.084 5.884 5.666 5.722 5.834 5.594 5.946 5.784
## [9313] 5.846 5.860 5.892 5.736 5.790 5.932 5.780 5.822 6.024 5.924 5.870 5.760
## [9325] 5.856 5.976 5.982 5.876 5.784 5.732 5.740 5.998 5.806 6.048 5.990 5.884
## [9337] 6.078 5.746 5.970 5.932 5.800 5.876 5.882 5.842 5.726 5.992 5.922 5.874
## [9349] 5.960 5.882 5.872 5.844 5.964 5.784 5.692 6.054 5.792 5.840 5.830 5.930
## [9361] 5.858 5.812 5.728 5.942 6.020 5.924 5.912 5.788 5.756 5.796 6.036 5.958
## [9373] 5.792 5.762 5.918 5.694 5.944 5.866 5.832 5.746 5.770 5.790 5.664 5.912
## [9385] 5.834 5.848 5.858 5.962 6.084 5.952 5.786 6.024 6.164 5.880 5.916 6.042
## [9397] 5.686 5.714 5.686 5.756 6.052 6.060 5.752 5.870 5.854 5.922 5.798 5.798
## [9409] 5.842 5.674 5.912 5.828 5.842 5.914 5.864 5.886 5.998 5.832 5.988 5.794
## [9421] 5.822 5.782 5.884 6.132 5.776 5.706 6.084 5.868 5.726 5.822 5.926 5.826
## [9433] 5.794 5.568 5.856 6.042 5.748 5.734 5.716 5.762 6.064 6.022 5.778 5.888
## [9445] 5.882 5.812 5.770 5.906 5.814 5.884 5.690 5.960 5.848 6.012 5.820 5.852
## [9457] 5.700 5.976 5.908 5.840 5.708 6.032 5.820 5.682 5.880 5.836 5.744 5.732
## [9469] 5.832 6.080 5.890 5.756 5.998 5.730 5.680 5.628 5.812 5.800 5.660 5.886
## [9481] 5.998 5.872 5.688 5.916 5.768 5.996 5.904 5.736 5.936 5.902 5.914 5.762
## [9493] 5.900 5.774 5.856 5.952 5.770 5.786 5.794 6.026 5.876 6.048 5.768 5.792
## [9505] 5.998 5.670 5.810 6.022 5.890 5.888 5.970 5.724 5.876 5.822 5.876 5.812
## [9517] 5.866 5.848 5.880 5.810 5.914 6.014 5.938 5.864 5.646 5.814 5.996 5.904
## [9529] 5.980 5.720 5.828 5.712 5.788 5.786 5.842 5.754 5.870 5.854 5.866 5.860
## [9541] 5.922 5.720 5.844 5.572 5.668 5.810 5.762 5.754 5.846 5.998 5.774 5.948
## [9553] 5.844 5.880 5.858 5.882 5.850 5.830 5.872 5.818 5.762 5.672 5.986 5.756
## [9565] 5.922 5.998 5.900 6.238 5.858 5.960 5.816 5.792 5.878 5.746 5.936 5.834
## [9577] 5.878 5.748 5.868 5.920 5.860 6.040 5.682 5.592 5.970 5.880 6.102 5.876
## [9589] 5.822 5.832 5.896 5.882 5.954 5.764 5.788 5.706 5.924 5.790 5.800 5.874
## [9601] 5.972 5.858 5.986 5.836 5.558 5.708 6.008 5.794 5.798 6.080 5.826 5.874
## [9613] 5.878 5.818 5.816 5.916 5.854 5.976 5.972 6.048 6.040 5.884 6.004 5.896
## [9625] 5.906 5.730 5.786 5.784 5.824 5.744 5.774 5.944 5.762 5.820 5.872 5.778
## [9637] 6.092 5.872 5.864 5.716 5.616 5.772 5.822 5.824 5.986 5.820 5.766 5.664
## [9649] 5.808 5.910 5.654 5.834 5.716 5.932 5.664 5.914 5.796 6.062 5.964 5.730
## [9661] 5.710 5.874 5.938 5.802 5.950 5.724 6.006 5.856 5.688 5.732 5.802 5.738
## [9673] 5.868 5.672 5.958 5.754 5.904 5.632 5.980 5.872 6.154 5.824 5.850 5.952
## [9685] 5.722 5.888 5.902 5.782 5.906 5.966 6.064 5.582 5.884 5.640 6.068 5.958
## [9697] 5.752 5.826 5.900 5.820 5.674 5.694 5.746 6.030 5.892 5.970 5.966 5.726
## [9709] 5.948 5.836 5.718 5.986 5.846 5.944 5.972 5.630 5.862 6.040 6.054 5.750
## [9721] 5.802 5.976 5.944 5.952 5.754 5.934 5.870 5.872 5.848 5.954 5.888 6.008
## [9733] 5.598 5.926 5.910 5.794 5.778 5.972 6.042 5.980 5.792 5.600 5.920 5.650
## [9745] 6.110 5.762 5.934 5.734 5.862 6.032 5.828 5.794 5.946 5.978 5.738 5.986
## [9757] 5.858 5.828 5.808 5.822 5.852 5.996 5.954 5.708 5.764 5.722 5.754 5.966
## [9769] 5.816 5.874 5.724 5.932 5.902 5.852 5.760 5.878 5.754 5.664 5.914 5.758
## [9781] 6.058 5.996 5.894 6.046 5.928 5.854 5.704 5.716 5.804 5.778 5.606 5.744
## [9793] 5.744 5.674 5.840 5.826 5.794 5.784 5.942 5.728 5.848 5.786 5.824 5.726
## [9805] 5.870 5.876 5.796 5.714 5.880 5.994 5.746 5.966 6.138 5.840 5.794 5.954
## [9817] 5.870 5.964 5.652 5.818 5.614 5.922 6.080 5.694 5.844 5.920 5.800 5.932
## [9829] 5.956 5.918 5.974 5.888 5.868 5.796 5.886 5.902 5.826 5.644 5.634 5.776
## [9841] 5.772 5.800 5.724 5.904 5.864 5.842 5.770 5.928 5.744 5.602 6.128 5.722
## [9853] 5.778 6.012 5.822 5.964 6.012 5.834 5.798 5.854 5.916 5.782 5.818 5.830
## [9865] 5.990 5.918 5.884 5.890 5.852 5.646 5.742 6.102 5.764 5.986 5.906 5.708
## [9877] 5.872 5.818 5.778 5.862 5.698 5.940 5.830 5.770 5.858 5.710 5.776 5.856
## [9889] 5.794 5.810 5.972 5.896 5.872 5.736 6.010 6.008 5.660 5.730 5.750 5.642
## [9901] 5.754 5.826 5.762 5.898 5.756 5.884 6.020 5.638 5.840 5.890 5.950 5.930
## [9913] 5.762 5.790 5.876 5.762 5.786 5.780 5.832 5.880 6.056 5.930 5.688 5.798
## [9925] 5.850 5.892 5.754 5.740 5.566 5.652 5.794 5.844 5.934 5.766 5.780 5.828

```

```
## [9937] 5.724 5.896 5.902 5.808 5.826 5.808 5.818 5.976 5.796 5.720 5.790 6.058
## [9949] 5.930 5.716 5.822 5.752 5.760 5.764 5.912 5.884 5.762 5.816 5.722 5.888
## [9961] 5.846 5.784 5.676 5.772 5.838 5.902 5.794 5.924 5.846 5.746 5.758 5.722
## [9973] 5.994 5.892 5.976 5.920 5.870 5.894 5.800 5.680 5.666 5.968 5.844 5.800
## [9985] 5.734 5.722 5.876 5.740 5.838 5.928 5.572 5.764 5.874 5.854 5.812 5.634
## [9997] 5.768 5.612 5.690 5.658
```

This time, we are going to create the list to store all those means_list_x (where x 1:5) and assigned that list as means__series. And, perform the following function from that list.

```
means_series <- list(a = means_list_1, b = means_list_2, c = means_list_3, d = means_list_4, e = means_list_5)
means_series
```

```
## $a
##      test means_list
## 1      100      5.34
## 2      100      6.17
## 3      100      5.78
## 4      100      5.81
## 5      100      5.86
## 6      100      5.97
## 7      100      5.94
## 8      100      5.87
## 9      100      5.51
## 10     100      5.92
## 11     100      5.62
## 12     100      5.91
## 13     100      6.11
## 14     100      5.91
## 15     100      5.86
## 16     100      5.36
## 17     100      5.88
## 18     100      5.96
## 19     100      5.52
## 20     100      6.01
## 21     100      6.40
## 22     100      6.02
## 23     100      6.55
## 24     100      5.91
## 25     100      6.27
## 26     100      6.42
## 27     100      5.78
## 28     100      5.82
## 29     100      5.36
## 30     100      5.74
## 31     100      5.71
## 32     100      5.56
## 33     100      5.65
## 34     100      6.04
## 35     100      5.75
```

## 36	100	5.75
## 37	100	5.43
## 38	100	5.85
## 39	100	6.38
## 40	100	5.77
## 41	100	5.88
## 42	100	6.08
## 43	100	5.41
## 44	100	6.03
## 45	100	6.04
## 46	100	5.80
## 47	100	5.99
## 48	100	5.80
## 49	100	5.98
## 50	100	5.85
## 51	100	6.12
## 52	100	6.09
## 53	100	5.66
## 54	100	5.20
## 55	100	5.86
## 56	100	5.99
## 57	100	6.03
## 58	100	5.87
## 59	100	5.32
## 60	100	5.50
## 61	100	6.00
## 62	100	5.75
## 63	100	6.30
## 64	100	6.21
## 65	100	6.20
## 66	100	5.62
## 67	100	6.31
## 68	100	5.60
## 69	100	5.91
## 70	100	5.40
## 71	100	6.09
## 72	100	6.25
## 73	100	5.67
## 74	100	5.46
## 75	100	5.92
## 76	100	5.74
## 77	100	5.65
## 78	100	6.17
## 79	100	5.97
## 80	100	5.81
## 81	100	6.11
## 82	100	6.09
## 83	100	5.96
## 84	100	5.96
## 85	100	4.86
## 86	100	5.76
## 87	100	6.04
## 88	100	5.96
## 89	100	5.81

```

## 90 100 6.18
## 91 100 5.42
## 92 100 5.51
## 93 100 5.74
## 94 100 5.93
## 95 100 5.64
## 96 100 5.94
## 97 100 5.86
## 98 100 5.59
## 99 100 5.87
## 100 100 5.67
##
## $b
## [1] 5.820000 5.736667 6.126667 5.946667 5.913333 5.853333 5.676667 5.770000
## [9] 5.620000 5.780000 5.750000 5.806667 5.916667 5.753333 5.943333 5.900000
## [17] 5.943333 5.793333 5.720000 5.763333 5.980000 5.860000 5.830000 5.596667
## [25] 5.723333 5.790000 6.100000 5.803333 5.920000 5.836667 5.896667 5.746667
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##	[13]	6.044	5.852	5.734	5.852	5.588	5.730	5.762	5.656	5.906	5.800	5.782	6.048
##	[25]	5.772	5.960	5.862	6.006	5.934	6.038	6.044	5.794	5.714	5.906	5.682	5.728
##	[37]	5.710	5.918	5.786	5.832	5.888	5.942	5.844	5.888	5.810	5.794	5.826	6.056
##	[49]	6.014	5.960	5.838	6.082	5.804	5.872	5.660	5.878	5.788	5.744	5.806	5.960
##	[61]	5.928	6.080	5.728	5.452	5.806	5.690	5.660	6.030	5.708	5.870	5.856	5.830
##	[73]	5.780	5.836	5.858	5.692	5.694	6.070	6.050	5.682	5.784	5.744	5.622	5.890
##	[85]	5.650	5.832	5.960	5.878	5.802	5.844	5.856	5.812	5.896	5.664	6.000	5.890
##	[97]	5.780	5.810	5.852	5.860	5.940	5.642	5.754	5.768	5.922	5.610	5.758	5.714
##	[109]	5.770	5.642	5.858	5.992	5.884	5.666	6.040	5.736	5.996	5.824	5.814	5.762
##	[121]	5.740	5.942	5.976	5.846	5.788	5.904	5.706	6.018	5.932	5.810	5.644	5.640
##	[133]	5.738	5.806	6.038	5.946	5.954	5.838	5.668	5.708	5.924	5.760	5.900	5.880
##	[145]	5.792	5.836	5.822	5.590	5.876	5.978	5.870	5.958	5.876	5.930	5.654	5.642
##	[157]	5.706	5.734	5.838	6.098	5.654	5.814	5.692	5.898	5.710	6.020	5.778	5.664
##	[169]	5.746	5.890	5.504	5.894	5.878	5.872	5.864	5.908	5.740	5.656	5.952	5.836
##	[181]	5.834	5.724	5.648	5.890	5.810	5.784	5.940	5.906	5.944	6.142	5.718	5.784
##	[193]	5.728	5.980	5.858	5.980	5.894	5.692	5.702	5.926	5.984	6.040	5.732	5.764
##	[205]	5.762	5.984	5.562	5.722	5.822	5.834	5.938	5.904	5.876	5.846	5.844	5.966
##	[217]	5.782	5.936	5.568	5.952	5.922	5.718	5.842	5.926	5.836	5.968	5.704	5.976
##	[229]	5.950	5.762	5.698	5.890	5.734	5.734	5.822	5.836	5.814	6.150	5.804	6.042
##	[241]	5.916	5.758	5.832	5.748	5.896	5.962	5.590	5.898	5.846	5.958	5.838	5.834
##	[253]	5.932	5.868	5.714	5.910	5.742	5.908	5.968	5.890	5.734	5.670	5.786	5.882
##	[265]	5.790	5.872	6.024	6.012	6.022	5.914	5.726	5.894	5.840	5.640	5.714	6.024
##	[277]	5.844	6.018	5.970	5.880	5.902	5.936	5.650	5.826	5.740	5.782	5.814	5.632
##	[289]	5.614	5.888	5.838	5.972	5.920	5.634	5.822	5.948	5.674	5.888	6.054	5.870
##	[301]	5.866	5.764	5.724	5.946	5.950	5.750	5.790	6.024	6.018	5.834	5.738	5.814
##	[313]	5.782	5.788	6.088	5.922	5.864	5.898	5.778	5.764	5.838	5.784	5.832	5.862
##	[325]	5.800	5.822	5.748	5.904	6.006	5.890	5.698	5.922	5.694	5.662	5.718	5.766
##	[337]	5.754	5.962	5.744	5.982	5.774	5.818	5.706	5.936	6.128	6.130	5.986	5.720
##	[349]	5.980	5.692	5.920	6.022	5.826	5.852	5.868	5.818	5.886	5.754	5.870	5.824
##	[361]	5.808	5.794	5.864	5.816	5.666	5.940	5.948	5.892	5.666	6.066	5.870	5.700
##	[373]	5.856	5.836	5.930	5.740	5.576	5.866	5.756	5.934	5.734	5.598	5.676	5.788
##	[385]	5.672	5.776	5.788	5.752	5.814	5.966	5.920	6.028	5.702	5.852	5.974	5.932
##	[397]	6.056	5.694	5.926	6.008	5.944	5.668	6.004	5.780	5.798	5.854	5.854	5.940
##	[409]	5.862	6.088	5.766	5.824	5.862	5.904	6.002	5.896	5.806	5.752	5.782	6.122
##	[421]	5.864	5.932	5.716	6.040	5.938	5.858	5.954	6.204	5.842	5.948	5.880	5.752
##	[433]	5.664	6.068	5.994	5.646	5.896	5.810	6.094	5.908	5.964	5.806	5.812	5.892
##	[445]	5.990	5.866	5.912	5.960	5.716	5.812	5.820	5.908	5.666	5.706	5.928	5.832
##	[457]	5.852	5.594	5.872	5.818	5.852	5.928	5.744	5.742	5.688	5.808	5.858	5.704
##	[469]	5.700	5.854	5.708	5.786	5.596	5.916	5.976	5.768	5.858	5.796	5.738	5.910
##	[481]	5.852	5.928	6.058	5.988	6.092	6.062	5.858	5.966	5.844	5.974	5.848	6.000
##	[493]	5.624	5.888	5.790	5.768	5.730	5.874	5.860	6.082	5.712	5.928	5.764	5.764
##	[505]	5.756	5.770	5.712	5.890	5.778	5.978	5.934	5.862	5.826	5.946	5.652	5.762
##	[517]	5.550	6.060	5.972	5.938	5.820	5.800	5.768	5.748	5.746	5.860	5.964	5.740
##	[529]	5.674	5.666	5.926	5.968	5.906	5.632	5.942	5.900	5.866	5.900	5.992	6.096
##	[541]	5.852	5.658	5.986	5.694	5.856	5.882	5.598	5.768	6.164	5.972	5.948	5.772
##	[553]	5.992	5.866	5.920	5.930	6.084	5.794	5.802	6.140	5.912	5.668	5.944	5.906
##	[565]	5.604	5.784	5.740	5.780	5.736	5.590	5.964	5.800	5.914	5.808	5.576	5.722
##	[577]	5.872	5.856	5.804	5.878	5.892	5.938	5.896	5.914	6.016	5.768	5.874	5.996
##	[589]	5.916	5.870	5.812	5.878	5.812	5.792	5.844	5.846	5.650	5.754	5.794	5.994
##	[601]	5.704	5.870	5.844	5.790	5.938	5.826	5.742	5.808	5.558	5.846	5.914	5.914
##	[613]	5.908	5.742	5.990	5.644	5.686	5.630	5.980	5.642	5.824	5.932	5.666	5.828
##	[625]	5.906	5.964	5.792	5.886	5.934	5.978	5.780	5.700	5.758	5.708	5.936	5.756
##	[637]	5.824	5.862	5.728	5.774	5.798	5.834	5.914	5.948	5.836	5.818	5.902	5.978

##	[649]	5.600	5.912	6.046	5.594	5.906	5.810	5.788	5.784	5.858	5.884	5.840	5.848
##	[661]	5.886	5.770	5.936	5.790	5.906	5.890	5.950	5.738	5.936	6.036	5.882	5.936
##	[673]	5.858	5.904	5.652	5.552	5.798	5.920	5.818	5.940	5.828	5.772	5.814	5.758
##	[685]	5.950	5.952	5.746	5.776	5.858	5.900	6.038	5.710	5.712	5.732	5.754	5.904
##	[697]	6.060	5.984	5.654	5.908	5.864	5.706	6.058	5.810	5.854	5.912	5.796	5.786
##	[709]	5.742	5.852	5.722	5.728	5.724	5.936	5.756	5.772	5.920	5.786	5.788	5.902
##	[721]	5.866	5.806	5.782	5.672	5.816	5.702	6.036	5.682	5.738	5.830	5.760	5.646
##	[733]	5.798	5.700	5.904	5.818	5.970	6.018	5.696	5.858	5.926	5.806	5.722	5.818
##	[745]	5.800	5.922	5.946	5.862	5.844	5.836	5.872	5.762	5.954	5.788	5.906	5.886
##	[757]	5.556	5.750	5.748	5.688	5.748	5.682	6.036	5.682	5.904	5.964	5.980	5.856
##	[769]	5.626	5.860	5.776	5.752	5.826	5.880	5.944	5.794	6.080	6.018	5.674	5.718
##	[781]	5.646	6.032	5.728	5.938	5.690	5.836	5.786	5.846	5.734	5.878	5.836	5.848
##	[793]	5.764	6.020	6.108	5.674	5.660	5.938	5.596	5.900	5.808	5.714	5.686	5.838
##	[805]	5.776	5.798	5.752	5.892	5.808	5.744	5.978	5.990	5.894	5.900	5.790	6.066
##	[817]	5.602	5.634	5.776	6.038	5.960	5.706	5.822	5.980	5.840	5.812	5.644	5.606
##	[829]	5.968	5.920	5.936	5.874	5.858	5.938	6.002	5.900	6.090	5.878	5.832	5.914
##	[841]	5.698	5.894	5.996	5.646	5.696	5.820	5.880	5.762	5.958	5.914	5.756	5.984
##	[853]	5.898	5.890	5.972	5.646	6.046	5.840	5.730	5.908	5.904	5.720	5.912	5.936
##	[865]	5.942	6.038	5.924	5.758	5.996	5.910	5.936	5.818	5.916	5.948	5.782	5.932
##	[877]	5.844	5.772	6.036	5.768	5.864	5.762	5.898	5.776	5.976	5.816	5.820	5.908
##	[889]	5.854	5.866	5.794	5.752	5.892	5.726	5.670	5.934	5.854	5.588	5.888	5.896
##	[901]	5.688	5.650	5.754	5.760	5.754	5.878	5.976	5.844	5.958	5.698	5.846	5.850
##	[913]	5.890	5.916	5.810	5.984	5.796	6.014	5.754	5.906	5.956	5.756	5.714	5.760
##	[925]	5.848	5.944	6.120	5.756	5.732	5.862	5.868	5.882	6.010	6.022	5.874	5.842
##	[937]	5.920	5.890	5.982	5.972	5.712	6.042	5.970	5.798	5.968	5.794	5.892	5.876
##	[949]	5.700	5.924	6.044	5.732	5.806	5.922	5.918	5.962	5.932	5.762	5.686	6.030
##	[961]	5.720	5.818	5.736	5.778	5.770	5.900	5.678	6.026	5.882	6.032	6.016	6.000
##	[973]	6.024	5.924	5.854	5.712	5.854	5.868	5.832	5.818	5.830	5.906	5.756	5.862
##	[985]	5.892	5.916	5.778	5.602	5.962	6.012	5.766	5.640	5.878	5.736	5.808	5.882
##	[997]	6.032	5.928	5.846	5.842	6.060	6.046	5.716	5.748	6.002	5.866	5.696	5.826
##	[1009]	5.732	5.706	5.928	5.874	5.770	5.832	5.776	5.826	5.714	5.786	5.768	5.732
##	[1021]	5.758	5.642	5.784	6.038	5.630	5.792	5.958	5.826	5.756	5.932	5.622	5.768
##	[1033]	5.990	5.802	5.922	5.900	5.764	5.814	6.020	5.922	5.750	5.938	5.884	5.682
##	[1045]	5.876	5.944	5.974	5.790	5.724	5.876	5.748	5.998	5.770	5.776	5.888	5.870
##	[1057]	5.912	6.004	5.732	5.740	5.802	5.762	5.934	5.818	5.956	5.848	5.886	5.958
##	[1069]	5.574	6.048	5.800	5.974	5.884	5.796	5.814	5.796	6.090	5.906	5.950	5.742
##	[1081]	5.928	5.886	6.104	5.628	5.866	5.980	5.892	6.144	5.812	6.146	5.638	5.960
##	[1093]	5.882	5.714	5.560	6.016	5.708	5.612	5.596	5.738	6.046	5.626	5.812	5.950
##	[1105]	5.916	5.914	5.782	5.782	5.966	5.810	5.832	5.684	5.944	5.646	5.698	5.744
##	[1117]	5.720	5.900	6.074	5.998	5.768	5.982	6.126	6.018	5.942	5.922	5.870	5.890
##	[1129]	5.992	5.960	5.754	5.816	6.096	5.688	5.716	5.884	5.706	5.846	6.018	5.922
##	[1141]	5.804	5.822	5.682	5.802	5.972	5.718	5.904	5.876	6.178	5.850	5.848	5.808
##	[1153]	6.116	5.860	5.900	5.604	5.794	5.756	5.886	5.902	5.750	5.642	5.934	5.964
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##	[1177]	5.792	5.712	5.822	5.670	5.972	5.846	5.812	5.808	5.822	5.792	6.060	5.734
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##	[1201]	5.878	5.756	5.752	5.660	5.806	5.952	5.614	5.790	5.860	5.834	5.670	6.046
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##	[1225]	5.944	5.812	5.894	5.740	5.798	5.814	5.888	5.884	5.868	5.802	5.734	5.762
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##	[1249]	5.702	5.832	5.840	5.784	5.844	5.668	5.736	5.920	5.740	5.994	5.878	5.874
##	[1261]	5.868	5.940	5.896	5.902	5.902	5.760	5.888	5.918	5.850	5.926	5.810	5.718
##	[1273]	5.974	5.796	5.820	5.856	5.862	5.768	5.828	5.862	5.694	5.482	5.762	5.852
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##	[1957]	5.850	5.774	6.002	5.786	5.874	5.768	5.888	5.914	5.914	6.072	5.840	5.868
##	[1969]	5.812	5.900	6.038	5.944	5.898	5.960	6.014	5.806	5.902	5.954	5.718	5.918
##	[1981]	5.830	5.876	5.610	5.758	5.596	5.942	5.872	5.844	5.936	5.786	5.832	5.964
##	[1993]	5.780	5.730	5.622	5.774	5.880	6.010	5.758	5.870	5.924	5.816	5.748	5.730
##	[2005]	5.578	5.882	5.996	5.790	5.932	5.716	5.782	5.778	5.854	6.002	5.878	5.930
##	[2017]	5.982	6.066	5.882	6.030	5.752	5.774	5.848	5.880	5.608	5.920	6.014	5.804
##	[2029]	6.028	5.768	5.888	5.984	5.694	5.798	5.748	5.550	5.800	5.902	5.834	5.918
##	[2041]	5.648	5.768	5.768	5.854	5.876	5.810	5.726	5.984	5.952	6.164	5.748	5.912
##	[2053]	5.820	5.718	5.800	5.686	5.782	5.802	5.806	5.824	6.024	5.778	5.784	5.760
##	[2065]	5.854	5.850	5.728	5.868	5.878	5.880	5.784	5.828	6.026	5.930	5.642	5.980
##	[2077]	5.766	5.640	5.788	6.144	5.862	5.730	5.680	5.744	5.646	5.664	5.972	5.934
##	[2089]	5.908	5.928	5.726	5.848	5.982	5.824	5.696	5.632	5.924	6.134	5.648	5.908
##	[2101]	5.816	5.880	5.836	5.832	5.798	5.710	5.734	5.932	6.048	5.836	5.832	5.706
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##	[2137]	5.744	5.802	5.594	5.906	5.622	5.738	5.912	5.806	5.966	5.858	5.926	5.862
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##	[2197]	5.834	5.932	5.918	5.924	5.766	5.992	5.784	5.664	5.952	5.826	5.982	5.768
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##	[2257]	5.796	5.850	5.800	6.050	5.962	5.724	5.816	5.846	5.814	5.858	5.810	5.834
##	[2269]	5.700	6.066	5.794	5.968	5.788	5.742	5.832	5.762	5.690	5.836	5.868	5.826
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##	[2329]	5.856	5.798	6.018	5.802	5.874	5.854	5.746	5.706	5.832	5.590	5.636	5.980
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##	[7801]	5.914	5.868	5.864	5.910	5.830	5.916	5.694	5.896	5.714	5.728	5.866	5.882
##	[7813]	5.740	5.948	5.944	5.690	5.844	5.684	5.834	5.928	5.774	5.762	5.790	5.768
##	[7825]	5.808	6.008	5.588	5.988	5.750	5.690	5.810	5.950	5.822	5.748	5.728	5.870
##	[7837]	6.124	5.854	5.704	5.878	5.714	5.960	5.960	5.756	5.944	5.766	6.082	5.776
##	[7849]	5.738	5.986	5.848	5.966	5.820	5.616	5.916	5.890	6.020	5.808	6.008	5.846
##	[7861]	5.856	5.738	5.526	5.838	5.908	5.550	5.860	5.988	5.860	5.830	5.716	5.710
##	[7873]	5.974	5.822	5.846	6.138	5.886	5.770	6.004	5.934	5.668	5.788	5.754	5.938
##	[7885]	5.940	5.704	5.818	5.952	5.826	5.850	5.746	5.812	5.792	5.864	5.724	5.668
##	[7897]	5.848	6.012	6.106	5.930	5.944	5.656	5.822	5.766	5.888	6.076	5.874	5.704
##	[7909]	6.058	5.644	5.724	5.976	5.822	5.868	6.028	5.998	5.878	5.792	5.782	5.802
##	[7921]	5.992	5.806	5.982	5.878	6.160	5.858	5.830	5.816	5.710	5.676	5.708	5.900
##	[7933]	6.064	5.824	5.884	5.922	5.870	5.938	5.894	5.676	5.764	5.990	5.686	5.800
##	[7945]	5.690	5.720	5.972	5.762	5.802	5.766	5.806	5.948	5.898	5.836	5.824	6.048
##	[7957]	5.684	5.918	5.762	6.022	5.956	5.896	5.716	5.728	5.818	5.598	5.824	5.966
##	[7969]	5.706	5.826	5.874	5.986	5.922	5.806	5.610	5.824	5.998	5.896	5.746	5.788
##	[7981]	5.828	5.898	5.982	5.712	5.884	5.892	6.186	5.844	5.906	5.896	5.644	5.780
##	[7993]	5.940	5.768	6.056	5.652	5.810	5.840	5.838	5.888	5.968	5.670	5.930	5.768
##	[8005]	5.750	5.968	5.930	5.966	5.784	5.814	6.080	6.138	5.752	5.806	5.696	5.980
##	[8017]	5.838	5.752	5.966	5.744	6.102	5.850	5.788	5.744	5.884	5.720	5.570	5.892
##	[8029]	5.826	5.874	5.882	5.838	5.782	5.804	5.878	5.664	5.854	5.898	5.936	5.664
##	[8041]	6.030	5.770	5.874	5.752	5.694	5.746	5.738	6.006	5.890	5.906	5.834	5.774
##	[8053]	5.872	5.726	5.930	6.002	5.874	5.952	5.876	5.728	6.034	5.932	5.770	6.000
##	[8065]	5.894	5.800	5.896	5.664	5.756	6.032	5.940	5.908	5.714	5.548	5.858	5.762
##	[8077]	5.784	5.750	5.904	5.866	5.990	5.590	5.848	5.780	5.980	5.976	5.894	5.988
##	[8089]	5.834	5.828	5.752	5.842	5.940	5.836	5.770	5.678	5.756	5.994	5.712	5.830
##	[8101]	5.908	5.704	5.918	5.786	5.908	5.818	5.730	5.890	5.870	5.886	5.768	5.862
##	[8113]	5.764	5.712	5.740	5.786	5.958	5.860	5.760	5.716	5.722	5.830	5.890	5.898
##	[8125]	5.954	5.974	5.640	5.790	5.950	5.866	5.946	5.906	6.102	5.930	5.826	5.998
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##	[8209]	5.790	5.866	5.850	5.746	5.772	5.814	5.716	5.748	5.860	5.916	6.002	5.856
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##	[8377]	5.732	5.840	5.810	5.772	5.964	5.764	5.780	5.592	5.892	5.876	5.968	5.770
##	[8389]	5.764	5.974	5.718	5.916	5.966	6.088	5.918	5.690	5.904	5.802	5.916	5.968
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##	[9097]	6.036	5.614	5.912	5.834	6.006	5.882	5.866	6.014	5.820	5.808	5.898	5.936
##	[9109]	5.794	6.124	5.704	5.730	5.644	5.788	5.866	5.926	5.870	5.964	5.724	5.754
##	[9121]	5.890	5.868	5.794	6.140	5.940	5.826	5.970	5.744	5.832	5.986	5.602	5.880
##	[9133]	5.974	5.778	5.614	6.030	5.944	5.892	5.806	5.760	5.744	5.750	5.936	5.760
##	[9145]	5.968	5.902	5.830	5.814	5.938	5.906	5.654	5.888	5.578	5.714	5.824	5.680
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##	[9169]	5.762	5.728	5.810	5.874	5.836	5.830	5.844	5.822	5.936	5.922	5.902	5.966
##	[9181]	5.810	5.786	5.776	5.962	5.778	5.888	5.746	5.906	5.802	5.758	5.984	5.832
##	[9193]	5.870	5.710	5.882	5.644	6.044	5.882	5.850	5.814	6.078	5.988	6.058	5.952
##	[9205]	5.766	5.856	5.878	5.898	5.834	5.828	5.788	5.928	5.838	5.722	5.908	5.800
##	[9217]	5.860	5.912	5.918	5.918	5.784	5.990	5.816	6.044	5.848	5.742	5.720	5.792
##	[9229]	5.760	5.808	5.882	5.872	5.698	5.950	5.922	5.708	5.776	5.742	5.768	5.780
##	[9241]	5.798	6.014	5.794	5.630	6.018	6.002	5.734	5.922	5.884	6.038	5.604	5.844
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##	[9289]	5.946	5.844	5.754	5.892	5.920	5.816	5.730	5.718	5.918	5.894	6.058	5.752
##	[9301]	5.932	5.768	5.776	5.832	6.084	5.884	5.666	5.722	5.834	5.594	5.946	5.784
##	[9313]	5.846	5.860	5.892	5.736	5.790	5.932	5.780	5.822	6.024	5.924	5.870	5.760
##	[9325]	5.856	5.976	5.982	5.876	5.784	5.732	5.740	5.998	5.806	6.048	5.990	5.884
##	[9337]	6.078	5.746	5.970	5.932	5.800	5.876	5.882	5.842	5.726	5.992	5.922	5.874
##	[9349]	5.960	5.882	5.872	5.844	5.964	5.784	5.692	6.054	5.792	5.840	5.830	5.930
##	[9361]	5.858	5.812	5.728	5.942	6.020	5.924	5.912	5.788	5.756	5.796	6.036	5.958
##	[9373]	5.792	5.762	5.918	5.694	5.944	5.866	5.832	5.746	5.770	5.790	5.664	5.912
##	[9385]	5.834	5.848	5.858	5.962	6.084	5.952	5.786	6.024	6.164	5.880	5.916	6.042
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##	[9409]	5.842	5.674	5.912	5.828	5.842	5.914	5.864	5.886	5.998	5.832	5.988	5.794
##	[9421]	5.822	5.782	5.884	6.132	5.776	5.706	6.084	5.868	5.726	5.822	5.926	5.826
##	[9433]	5.794	5.568	5.856	6.042	5.748	5.734	5.716	5.762	6.064	6.022	5.778	5.888
##	[9445]	5.882	5.812	5.770	5.906	5.814	5.884	5.690	5.960	5.848	6.012	5.820	5.852
##	[9457]	5.700	5.976	5.908	5.840	5.708	6.032	5.820	5.682	5.880	5.836	5.744	5.732
##	[9469]	5.832	6.080	5.890	5.756	5.998	5.730	5.680	5.628	5.812	5.800	5.660	5.886
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##	[9493]	5.900	5.774	5.856	5.952	5.770	5.786	5.794	6.026	5.876	6.048	5.768	5.792
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##	[9517]	5.866	5.848	5.880	5.810	5.914	6.014	5.938	5.864	5.646	5.814	5.996	5.904
##	[9529]	5.980	5.720	5.828	5.712	5.788	5.786	5.842	5.754	5.870	5.854	5.866	5.860
##	[9541]	5.922	5.720	5.844	5.572	5.668	5.810	5.762	5.754	5.846	5.998	5.774	5.948
##	[9553]	5.844	5.880	5.858	5.882	5.850	5.830	5.872	5.818	5.762	5.672	5.986	5.756
##	[9565]	5.922	5.998	5.900	6.238	5.858	5.960	5.816	5.792	5.878	5.746	5.936	5.834
##	[9577]	5.878	5.748	5.868	5.920	5.860	6.040	5.682	5.592	5.970	5.880	6.102	5.876
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##	[9613]	5.878	5.818	5.816	5.916	5.854	5.976	5.972	6.048	6.040	5.884	6.004	5.896
##	[9625]	5.906	5.730	5.786	5.784	5.824	5.744	5.774	5.944	5.762	5.820	5.872	5.778
##	[9637]	6.092	5.872	5.864	5.716	5.616	5.772	5.822	5.824	5.986	5.820	5.766	5.664
##	[9649]	5.808	5.910	5.654	5.834	5.716	5.932	5.664	5.914	5.796	6.062	5.964	5.730
##	[9661]	5.710	5.874	5.938	5.802	5.950	5.724	6.006	5.856	5.688	5.732	5.802	5.738
##	[9673]	5.868	5.672	5.958	5.754	5.904	5.632	5.980	5.872	6.154	5.824	5.850	5.952
##	[9685]	5.722	5.888	5.902	5.782	5.906	5.966	6.064	5.582	5.884	5.640	6.068	5.958
##	[9697]	5.752	5.826	5.900	5.820	5.674	5.694	5.746	6.030	5.892	5.970	5.966	5.726
##	[9709]	5.948	5.836	5.718	5.986	5.846	5.944	5.972	5.630	5.862	6.040	6.054	5.750

```
## [9721] 5.802 5.976 5.944 5.952 5.754 5.934 5.870 5.872 5.848 5.954 5.888 6.008
## [9733] 5.598 5.926 5.910 5.794 5.778 5.972 6.042 5.980 5.792 5.600 5.920 5.650
## [9745] 6.110 5.762 5.934 5.734 5.862 6.032 5.828 5.794 5.946 5.978 5.738 5.986
## [9757] 5.858 5.828 5.808 5.822 5.852 5.996 5.954 5.708 5.764 5.722 5.754 5.966
## [9769] 5.816 5.874 5.724 5.932 5.902 5.852 5.760 5.878 5.754 5.664 5.914 5.758
## [9781] 6.058 5.996 5.894 6.046 5.928 5.854 5.704 5.716 5.804 5.778 5.606 5.744
## [9793] 5.744 5.674 5.840 5.826 5.794 5.784 5.942 5.728 5.848 5.786 5.824 5.726
## [9805] 5.870 5.876 5.796 5.714 5.880 5.994 5.746 5.966 6.138 5.840 5.794 5.954
## [9817] 5.870 5.964 5.652 5.818 5.614 5.922 6.080 5.694 5.844 5.920 5.800 5.932
## [9829] 5.956 5.918 5.974 5.888 5.868 5.796 5.886 5.902 5.826 5.644 5.634 5.776
## [9841] 5.772 5.800 5.724 5.904 5.864 5.842 5.770 5.928 5.744 5.602 6.128 5.722
## [9853] 5.778 6.012 5.822 5.964 6.012 5.834 5.798 5.854 5.916 5.782 5.818 5.830
## [9865] 5.990 5.918 5.884 5.890 5.852 5.646 5.742 6.102 5.764 5.986 5.906 5.708
## [9877] 5.872 5.818 5.778 5.862 5.698 5.940 5.830 5.770 5.858 5.710 5.776 5.856
## [9889] 5.794 5.810 5.972 5.896 5.872 5.736 6.010 6.008 5.660 5.730 5.750 5.642
## [9901] 5.754 5.826 5.762 5.898 5.756 5.884 6.020 5.638 5.840 5.890 5.950 5.930
## [9913] 5.762 5.790 5.876 5.762 5.786 5.780 5.832 5.880 6.056 5.930 5.688 5.798
## [9925] 5.850 5.892 5.754 5.740 5.566 5.652 5.794 5.844 5.934 5.766 5.780 5.828
## [9937] 5.724 5.896 5.902 5.808 5.826 5.808 5.818 5.976 5.796 5.720 5.790 6.058
## [9949] 5.930 5.716 5.822 5.752 5.760 5.764 5.912 5.884 5.762 5.816 5.722 5.888
## [9961] 5.846 5.784 5.676 5.772 5.838 5.902 5.794 5.924 5.846 5.746 5.758 5.722
## [9973] 5.994 5.892 5.976 5.920 5.870 5.894 5.800 5.680 5.666 5.968 5.844 5.800
## [9985] 5.734 5.722 5.876 5.740 5.838 5.928 5.572 5.764 5.874 5.854 5.812 5.634
## [9997] 5.768 5.612 5.690 5.658
```

```
typeof(means_series)
```

```
## [1] "list"
```

```
str(means_series)
```

```
## List of 5
## $ a:'data.frame': 100 obs. of 2 variables:
## ..$ test : num [1:100] 100 100 100 100 100 100 100 100 100 100 ...
## ..$ means_list: num [1:100] 5.34 6.17 5.78 5.81 5.86 5.97 5.94 5.87 5.51 5.92 ...
## $ b: num [1:200] 5.82 5.74 6.13 5.95 5.91 ...
## $ c: num [1:1000] 5.8 5.85 5.65 5.9 5.69 ...
## $ d: num [1:3000] 5.68 5.98 5.52 5.75 5.94 ...
## $ e: num [1:10000] 5.84 5.62 5.79 5.8 5.84 ...
```

1. calculate the mean of means_list_x (where x 1:5) from that list (using the command related to filtering list from lecture 2)

```
mean(means_series[[1]][[1]])
```

```
## [1] 100
```

```
mean(means_series[[1]][[2]])
```

```
## [1] 5.849
```

```
mean(means_series[[2]])
```

```
## [1] 5.833517
```

```
mean(means_series[[3]])
```

```
## [1] 5.840266
```

```
mean(means_series[[4]])
```

```
## [1] 5.843328
```

```
mean(means_series[[5]])
```

```
## [1] 5.842541
```

Using `bind_rows()` function to combined all dataset from `means_seris` and assigned into object called `df_means_combined`. Please make sure that your result dataset should have 14300 observations and 2 variables; `test` and `mean_list`.

```
df1 <- data.frame(test=c(means_series[[1]][[1]]))
df2 <- data.frame(test=c(means_series[[1]][[1]]), mean_list=c(means_series[[1]][[2]]))
df3 <- data.frame(test=c(means_series[[1]][[1]]), mean_list=c(means_series[[2]]))
df4 <- data.frame(test=c(means_series[[1]][[1]]), mean_list=c(means_series[[3]]))
df5 <- data.frame(test=c(means_series[[1]][[1]]), mean_list=c(means_series[[4]]))
df6 <- data.frame(test=c(means_series[[1]][[1]]), mean_list=c(means_series[[5]]))
df_means_combined <- bind_rows(df2,df3,df4,df5,df6)
df_means_combined
```

```
##      test mean_list
## 1     100  5.340000
## 2     100  6.170000
## 3     100  5.780000
## 4     100  5.810000
## 5     100  5.860000
## 6     100  5.970000
## 7     100  5.940000
## 8     100  5.870000
## 9     100  5.510000
## 10    100  5.920000
## 11    100  5.620000
## 12    100  5.910000
## 13    100  6.110000
## 14    100  5.910000
## 15    100  5.860000
## 16    100  5.360000
## 17    100  5.880000
## 18    100  5.960000
```

## 19	100	5.520000
## 20	100	6.010000
## 21	100	6.400000
## 22	100	6.020000
## 23	100	6.550000
## 24	100	5.910000
## 25	100	6.270000
## 26	100	6.420000
## 27	100	5.780000
## 28	100	5.820000
## 29	100	5.360000
## 30	100	5.740000
## 31	100	5.710000
## 32	100	5.560000
## 33	100	5.650000
## 34	100	6.040000
## 35	100	5.750000
## 36	100	5.750000
## 37	100	5.430000
## 38	100	5.850000
## 39	100	6.380000
## 40	100	5.770000
## 41	100	5.880000
## 42	100	6.080000
## 43	100	5.410000
## 44	100	6.030000
## 45	100	6.040000
## 46	100	5.800000
## 47	100	5.990000
## 48	100	5.800000
## 49	100	5.980000
## 50	100	5.850000
## 51	100	6.120000
## 52	100	6.090000
## 53	100	5.660000
## 54	100	5.200000
## 55	100	5.860000
## 56	100	5.990000
## 57	100	6.030000
## 58	100	5.870000
## 59	100	5.320000
## 60	100	5.500000
## 61	100	6.000000
## 62	100	5.750000
## 63	100	6.300000
## 64	100	6.210000
## 65	100	6.200000
## 66	100	5.620000
## 67	100	6.310000
## 68	100	5.600000
## 69	100	5.910000
## 70	100	5.400000
## 71	100	6.090000
## 72	100	6.250000

## 73	100	5.670000
## 74	100	5.460000
## 75	100	5.920000
## 76	100	5.740000
## 77	100	5.650000
## 78	100	6.170000
## 79	100	5.970000
## 80	100	5.810000
## 81	100	6.110000
## 82	100	6.090000
## 83	100	5.960000
## 84	100	5.960000
## 85	100	4.860000
## 86	100	5.760000
## 87	100	6.040000
## 88	100	5.960000
## 89	100	5.810000
## 90	100	6.180000
## 91	100	5.420000
## 92	100	5.510000
## 93	100	5.740000
## 94	100	5.930000
## 95	100	5.640000
## 96	100	5.940000
## 97	100	5.860000
## 98	100	5.590000
## 99	100	5.870000
## 100	100	5.670000
## 101	100	5.820000
## 102	100	5.736667
## 103	100	6.126667
## 104	100	5.946667
## 105	100	5.913333
## 106	100	5.853333
## 107	100	5.676667
## 108	100	5.770000
## 109	100	5.620000
## 110	100	5.780000
## 111	100	5.750000
## 112	100	5.806667
## 113	100	5.916667
## 114	100	5.753333
## 115	100	5.943333
## 116	100	5.900000
## 117	100	5.943333
## 118	100	5.793333
## 119	100	5.720000
## 120	100	5.763333
## 121	100	5.980000
## 122	100	5.860000
## 123	100	5.830000
## 124	100	5.596667
## 125	100	5.723333
## 126	100	5.790000

## 127	100	6.100000
## 128	100	5.803333
## 129	100	5.920000
## 130	100	5.836667
## 131	100	5.896667
## 132	100	5.746667
## 133	100	5.723333
## 134	100	5.893333
## 135	100	5.800000
## 136	100	5.706667
## 137	100	5.750000
## 138	100	5.920000
## 139	100	5.916667
## 140	100	5.526667
## 141	100	5.850000
## 142	100	5.996667
## 143	100	5.730000
## 144	100	6.013333
## 145	100	5.550000
## 146	100	5.563333
## 147	100	5.963333
## 148	100	5.960000
## 149	100	5.883333
## 150	100	5.856667
## 151	100	5.766667
## 152	100	5.603333
## 153	100	6.020000
## 154	100	5.953333
## 155	100	5.813333
## 156	100	5.740000
## 157	100	5.743333
## 158	100	6.016667
## 159	100	5.906667
## 160	100	5.743333
## 161	100	5.850000
## 162	100	5.763333
## 163	100	5.566667
## 164	100	5.883333
## 165	100	6.033333
## 166	100	5.983333
## 167	100	5.920000
## 168	100	5.870000
## 169	100	6.000000
## 170	100	5.843333
## 171	100	5.943333
## 172	100	5.926667
## 173	100	5.990000
## 174	100	5.570000
## 175	100	5.700000
## 176	100	5.880000
## 177	100	5.813333
## 178	100	5.880000
## 179	100	5.873333
## 180	100	5.866667

## 181	100	5.980000
## 182	100	5.906667
## 183	100	5.766667
## 184	100	5.763333
## 185	100	6.053333
## 186	100	5.753333
## 187	100	5.886667
## 188	100	6.213333
## 189	100	5.923333
## 190	100	5.833333
## 191	100	5.923333
## 192	100	5.936667
## 193	100	5.933333
## 194	100	5.770000
## 195	100	5.846667
## 196	100	5.670000
## 197	100	5.790000
## 198	100	6.073333
## 199	100	5.580000
## 200	100	5.730000
## 201	100	5.820000
## 202	100	5.803333
## 203	100	5.823333
## 204	100	5.723333
## 205	100	5.720000
## 206	100	5.726667
## 207	100	5.690000
## 208	100	5.793333
## 209	100	5.763333
## 210	100	5.746667
## 211	100	5.736667
## 212	100	5.580000
## 213	100	5.610000
## 214	100	5.673333
## 215	100	5.820000
## 216	100	5.840000
## 217	100	5.776667
## 218	100	5.830000
## 219	100	5.876667
## 220	100	5.760000
## 221	100	5.703333
## 222	100	5.656667
## 223	100	6.003333
## 224	100	5.753333
## 225	100	5.823333
## 226	100	5.693333
## 227	100	5.610000
## 228	100	5.840000
## 229	100	5.956667
## 230	100	5.830000
## 231	100	6.123333
## 232	100	5.723333
## 233	100	5.966667
## 234	100	5.913333

##	235	100	5.763333
##	236	100	5.796667
##	237	100	5.753333
##	238	100	5.700000
##	239	100	5.620000
##	240	100	5.823333
##	241	100	5.993333
##	242	100	5.983333
##	243	100	5.893333
##	244	100	5.753333
##	245	100	5.780000
##	246	100	5.953333
##	247	100	5.726667
##	248	100	6.010000
##	249	100	5.716667
##	250	100	5.686667
##	251	100	5.926667
##	252	100	5.803333
##	253	100	5.823333
##	254	100	6.063333
##	255	100	5.940000
##	256	100	6.103333
##	257	100	5.806667
##	258	100	5.680000
##	259	100	6.020000
##	260	100	5.713333
##	261	100	5.873333
##	262	100	5.806667
##	263	100	5.886667
##	264	100	5.810000
##	265	100	5.940000
##	266	100	5.903333
##	267	100	5.813333
##	268	100	5.790000
##	269	100	5.770000
##	270	100	5.963333
##	271	100	5.750000
##	272	100	5.903333
##	273	100	5.806667
##	274	100	5.890000
##	275	100	5.956667
##	276	100	6.043333
##	277	100	5.903333
##	278	100	5.770000
##	279	100	5.963333
##	280	100	5.643333
##	281	100	5.770000
##	282	100	5.606667
##	283	100	5.770000
##	284	100	5.896667
##	285	100	5.773333
##	286	100	5.876667
##	287	100	5.796667
##	288	100	5.926667

##	289	100	5.920000
##	290	100	5.713333
##	291	100	6.060000
##	292	100	5.716667
##	293	100	5.926667
##	294	100	5.970000
##	295	100	5.896667
##	296	100	5.643333
##	297	100	6.046667
##	298	100	5.986667
##	299	100	5.830000
##	300	100	5.830000
##	301	100	5.802000
##	302	100	5.854000
##	303	100	5.650000
##	304	100	5.900000
##	305	100	5.686000
##	306	100	5.678000
##	307	100	5.786000
##	308	100	5.776000
##	309	100	6.066000
##	310	100	5.974000
##	311	100	5.832000
##	312	100	5.564000
##	313	100	5.792000
##	314	100	5.688000
##	315	100	5.804000
##	316	100	5.888000
##	317	100	5.976000
##	318	100	5.722000
##	319	100	5.854000
##	320	100	5.788000
##	321	100	6.052000
##	322	100	5.990000
##	323	100	5.796000
##	324	100	5.784000
##	325	100	5.734000
##	326	100	5.668000
##	327	100	5.766000
##	328	100	5.934000
##	329	100	5.852000
##	330	100	5.752000
##	331	100	5.798000
##	332	100	5.748000
##	333	100	6.026000
##	334	100	5.776000
##	335	100	5.796000
##	336	100	5.848000
##	337	100	5.924000
##	338	100	5.980000
##	339	100	5.576000
##	340	100	5.796000
##	341	100	5.762000
##	342	100	5.936000

##	343	100	5.944000
##	344	100	5.654000
##	345	100	5.654000
##	346	100	5.832000
##	347	100	5.646000
##	348	100	5.798000
##	349	100	5.630000
##	350	100	5.914000
##	351	100	5.866000
##	352	100	5.644000
##	353	100	5.738000
##	354	100	5.916000
##	355	100	5.744000
##	356	100	5.728000
##	357	100	5.710000
##	358	100	5.856000
##	359	100	5.966000
##	360	100	5.740000
##	361	100	5.996000
##	362	100	5.982000
##	363	100	5.824000
##	364	100	5.894000
##	365	100	5.874000
##	366	100	5.876000
##	367	100	5.730000
##	368	100	5.968000
##	369	100	5.686000
##	370	100	5.984000
##	371	100	6.078000
##	372	100	5.878000
##	373	100	5.738000
##	374	100	5.772000
##	375	100	5.810000
##	376	100	5.770000
##	377	100	5.698000
##	378	100	5.800000
##	379	100	6.028000
##	380	100	5.858000
##	381	100	5.856000
##	382	100	5.780000
##	383	100	5.752000
##	384	100	5.574000
##	385	100	5.928000
##	386	100	6.142000
##	387	100	5.746000
##	388	100	5.684000
##	389	100	5.954000
##	390	100	5.836000
##	391	100	5.914000
##	392	100	5.732000
##	393	100	5.832000
##	394	100	6.030000
##	395	100	5.762000
##	396	100	5.802000

## 397	100	5.740000
## 398	100	5.886000
## 399	100	5.800000
## 400	100	5.724000
## 401	100	5.738000
## 402	100	5.944000
## 403	100	5.898000
## 404	100	5.968000
## 405	100	6.000000
## 406	100	5.648000
## 407	100	5.802000
## 408	100	5.966000
## 409	100	5.968000
## 410	100	5.924000
## 411	100	5.930000
## 412	100	6.062000
## 413	100	5.852000
## 414	100	5.810000
## 415	100	5.932000
## 416	100	5.870000
## 417	100	6.014000
## 418	100	5.832000
## 419	100	5.982000
## 420	100	6.170000
## 421	100	5.858000
## 422	100	5.772000
## 423	100	5.804000
## 424	100	5.894000
## 425	100	5.676000
## 426	100	5.816000
## 427	100	5.964000
## 428	100	5.752000
## 429	100	5.804000
## 430	100	5.870000
## 431	100	5.890000
## 432	100	5.824000
## 433	100	5.734000
## 434	100	5.878000
## 435	100	5.894000
## 436	100	5.938000
## 437	100	6.064000
## 438	100	5.894000
## 439	100	5.910000
## 440	100	5.962000
## 441	100	5.886000
## 442	100	5.710000
## 443	100	5.788000
## 444	100	5.752000
## 445	100	5.806000
## 446	100	5.972000
## 447	100	5.658000
## 448	100	5.894000
## 449	100	5.984000
## 450	100	5.996000

## 451	100	5.846000
## 452	100	5.874000
## 453	100	5.972000
## 454	100	5.890000
## 455	100	5.864000
## 456	100	5.828000
## 457	100	5.812000
## 458	100	6.094000
## 459	100	5.832000
## 460	100	5.652000
## 461	100	6.002000
## 462	100	5.904000
## 463	100	5.782000
## 464	100	5.912000
## 465	100	5.904000
## 466	100	5.798000
## 467	100	5.822000
## 468	100	5.802000
## 469	100	5.844000
## 470	100	6.026000
## 471	100	5.882000
## 472	100	5.636000
## 473	100	6.018000
## 474	100	5.482000
## 475	100	5.672000
## 476	100	5.882000
## 477	100	5.716000
## 478	100	5.644000
## 479	100	5.852000
## 480	100	5.856000
## 481	100	5.912000
## 482	100	5.842000
## 483	100	5.888000
## 484	100	5.716000
## 485	100	5.902000
## 486	100	5.782000
## 487	100	5.798000
## 488	100	5.626000
## 489	100	6.000000
## 490	100	5.842000
## 491	100	5.740000
## 492	100	5.960000
## 493	100	5.810000
## 494	100	6.048000
## 495	100	6.060000
## 496	100	5.846000
## 497	100	5.772000
## 498	100	5.882000
## 499	100	5.814000
## 500	100	5.810000
## 501	100	5.958000
## 502	100	5.766000
## 503	100	5.866000
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##	14172	100	6.102000
##	14173	100	5.764000
##	14174	100	5.986000
##	14175	100	5.906000
##	14176	100	5.708000
##	14177	100	5.872000
##	14178	100	5.818000
##	14179	100	5.778000
##	14180	100	5.862000
##	14181	100	5.698000
##	14182	100	5.940000
##	14183	100	5.830000
##	14184	100	5.770000
##	14185	100	5.858000
##	14186	100	5.710000
##	14187	100	5.776000
##	14188	100	5.856000
##	14189	100	5.794000
##	14190	100	5.810000
##	14191	100	5.972000
##	14192	100	5.896000
##	14193	100	5.872000
##	14194	100	5.736000
##	14195	100	6.010000
##	14196	100	6.008000
##	14197	100	5.660000
##	14198	100	5.730000
##	14199	100	5.750000
##	14200	100	5.642000
##	14201	100	5.754000
##	14202	100	5.826000
##	14203	100	5.762000
##	14204	100	5.898000
##	14205	100	5.756000
##	14206	100	5.884000
##	14207	100	6.020000
##	14208	100	5.638000
##	14209	100	5.840000
##	14210	100	5.890000
##	14211	100	5.950000
##	14212	100	5.930000
##	14213	100	5.762000
##	14214	100	5.790000
##	14215	100	5.876000
##	14216	100	5.762000
##	14217	100	5.786000
##	14218	100	5.780000
##	14219	100	5.832000
##	14220	100	5.880000

##	14221	100	6.056000
##	14222	100	5.930000
##	14223	100	5.688000
##	14224	100	5.798000
##	14225	100	5.850000
##	14226	100	5.892000
##	14227	100	5.754000
##	14228	100	5.740000
##	14229	100	5.566000
##	14230	100	5.652000
##	14231	100	5.794000
##	14232	100	5.844000
##	14233	100	5.934000
##	14234	100	5.766000
##	14235	100	5.780000
##	14236	100	5.828000
##	14237	100	5.724000
##	14238	100	5.896000
##	14239	100	5.902000
##	14240	100	5.808000
##	14241	100	5.826000
##	14242	100	5.808000
##	14243	100	5.818000
##	14244	100	5.976000
##	14245	100	5.796000
##	14246	100	5.720000
##	14247	100	5.790000
##	14248	100	6.058000
##	14249	100	5.930000
##	14250	100	5.716000
##	14251	100	5.822000
##	14252	100	5.752000
##	14253	100	5.760000
##	14254	100	5.764000
##	14255	100	5.912000
##	14256	100	5.884000
##	14257	100	5.762000
##	14258	100	5.816000
##	14259	100	5.722000
##	14260	100	5.888000
##	14261	100	5.846000
##	14262	100	5.784000
##	14263	100	5.676000
##	14264	100	5.772000
##	14265	100	5.838000
##	14266	100	5.902000
##	14267	100	5.794000
##	14268	100	5.924000
##	14269	100	5.846000
##	14270	100	5.746000
##	14271	100	5.758000
##	14272	100	5.722000
##	14273	100	5.994000
##	14274	100	5.892000

```
## 14275 100 5.976000
## 14276 100 5.920000
## 14277 100 5.870000
## 14278 100 5.894000
## 14279 100 5.800000
## 14280 100 5.680000
## 14281 100 5.666000
## 14282 100 5.968000
## 14283 100 5.844000
## 14284 100 5.800000
## 14285 100 5.734000
## 14286 100 5.722000
## 14287 100 5.876000
## 14288 100 5.740000
## 14289 100 5.838000
## 14290 100 5.928000
## 14291 100 5.572000
## 14292 100 5.764000
## 14293 100 5.874000
## 14294 100 5.854000
## 14295 100 5.812000
## 14296 100 5.634000
## 14297 100 5.768000
## 14298 100 5.612000
## 14299 100 5.690000
## 14300 100 5.658000
```

```
view(df_means_combined)
```

Finally, calculate the mean value for each group of test using following example. In this exercise, we are going to use `group_by` function from the tidyverse package and `%>%` operator (pipe operator).

```
dfm <- as.data.frame(df_means_combined)
dfm
```

```
##      test mean_list
## 1      100 5.340000
## 2      100 6.170000
## 3      100 5.780000
## 4      100 5.810000
## 5      100 5.860000
## 6      100 5.970000
## 7      100 5.940000
## 8      100 5.870000
## 9      100 5.510000
## 10     100 5.920000
## 11     100 5.620000
## 12     100 5.910000
## 13     100 6.110000
## 14     100 5.910000
```

## 15	100	5.860000
## 16	100	5.360000
## 17	100	5.880000
## 18	100	5.960000
## 19	100	5.520000
## 20	100	6.010000
## 21	100	6.400000
## 22	100	6.020000
## 23	100	6.550000
## 24	100	5.910000
## 25	100	6.270000
## 26	100	6.420000
## 27	100	5.780000
## 28	100	5.820000
## 29	100	5.360000
## 30	100	5.740000
## 31	100	5.710000
## 32	100	5.560000
## 33	100	5.650000
## 34	100	6.040000
## 35	100	5.750000
## 36	100	5.750000
## 37	100	5.430000
## 38	100	5.850000
## 39	100	6.380000
## 40	100	5.770000
## 41	100	5.880000
## 42	100	6.080000
## 43	100	5.410000
## 44	100	6.030000
## 45	100	6.040000
## 46	100	5.800000
## 47	100	5.990000
## 48	100	5.800000
## 49	100	5.980000
## 50	100	5.850000
## 51	100	6.120000
## 52	100	6.090000
## 53	100	5.660000
## 54	100	5.200000
## 55	100	5.860000
## 56	100	5.990000
## 57	100	6.030000
## 58	100	5.870000
## 59	100	5.320000
## 60	100	5.500000
## 61	100	6.000000
## 62	100	5.750000
## 63	100	6.300000
## 64	100	6.210000
## 65	100	6.200000
## 66	100	5.620000
## 67	100	6.310000
## 68	100	5.600000

## 69	100	5.910000
## 70	100	5.400000
## 71	100	6.090000
## 72	100	6.250000
## 73	100	5.670000
## 74	100	5.460000
## 75	100	5.920000
## 76	100	5.740000
## 77	100	5.650000
## 78	100	6.170000
## 79	100	5.970000
## 80	100	5.810000
## 81	100	6.110000
## 82	100	6.090000
## 83	100	5.960000
## 84	100	5.960000
## 85	100	4.860000
## 86	100	5.760000
## 87	100	6.040000
## 88	100	5.960000
## 89	100	5.810000
## 90	100	6.180000
## 91	100	5.420000
## 92	100	5.510000
## 93	100	5.740000
## 94	100	5.930000
## 95	100	5.640000
## 96	100	5.940000
## 97	100	5.860000
## 98	100	5.590000
## 99	100	5.870000
## 100	100	5.670000
## 101	100	5.820000
## 102	100	5.736667
## 103	100	6.126667
## 104	100	5.946667
## 105	100	5.913333
## 106	100	5.853333
## 107	100	5.676667
## 108	100	5.770000
## 109	100	5.620000
## 110	100	5.780000
## 111	100	5.750000
## 112	100	5.806667
## 113	100	5.916667
## 114	100	5.753333
## 115	100	5.943333
## 116	100	5.900000
## 117	100	5.943333
## 118	100	5.793333
## 119	100	5.720000
## 120	100	5.763333
## 121	100	5.980000
## 122	100	5.860000

## 123	100	5.830000
## 124	100	5.596667
## 125	100	5.723333
## 126	100	5.790000
## 127	100	6.100000
## 128	100	5.803333
## 129	100	5.920000
## 130	100	5.836667
## 131	100	5.896667
## 132	100	5.746667
## 133	100	5.723333
## 134	100	5.893333
## 135	100	5.800000
## 136	100	5.706667
## 137	100	5.750000
## 138	100	5.920000
## 139	100	5.916667
## 140	100	5.526667
## 141	100	5.850000
## 142	100	5.996667
## 143	100	5.730000
## 144	100	6.013333
## 145	100	5.550000
## 146	100	5.563333
## 147	100	5.963333
## 148	100	5.960000
## 149	100	5.883333
## 150	100	5.856667
## 151	100	5.766667
## 152	100	5.603333
## 153	100	6.020000
## 154	100	5.953333
## 155	100	5.813333
## 156	100	5.740000
## 157	100	5.743333
## 158	100	6.016667
## 159	100	5.906667
## 160	100	5.743333
## 161	100	5.850000
## 162	100	5.763333
## 163	100	5.566667
## 164	100	5.883333
## 165	100	6.033333
## 166	100	5.983333
## 167	100	5.920000
## 168	100	5.870000
## 169	100	6.000000
## 170	100	5.843333
## 171	100	5.943333
## 172	100	5.926667
## 173	100	5.990000
## 174	100	5.570000
## 175	100	5.700000
## 176	100	5.880000

## 177	100	5.813333
## 178	100	5.880000
## 179	100	5.873333
## 180	100	5.866667
## 181	100	5.980000
## 182	100	5.906667
## 183	100	5.766667
## 184	100	5.763333
## 185	100	6.053333
## 186	100	5.753333
## 187	100	5.886667
## 188	100	6.213333
## 189	100	5.923333
## 190	100	5.833333
## 191	100	5.923333
## 192	100	5.936667
## 193	100	5.933333
## 194	100	5.770000
## 195	100	5.846667
## 196	100	5.670000
## 197	100	5.790000
## 198	100	6.073333
## 199	100	5.580000
## 200	100	5.730000
## 201	100	5.820000
## 202	100	5.803333
## 203	100	5.823333
## 204	100	5.723333
## 205	100	5.720000
## 206	100	5.726667
## 207	100	5.690000
## 208	100	5.793333
## 209	100	5.763333
## 210	100	5.746667
## 211	100	5.736667
## 212	100	5.580000
## 213	100	5.610000
## 214	100	5.673333
## 215	100	5.820000
## 216	100	5.840000
## 217	100	5.776667
## 218	100	5.830000
## 219	100	5.876667
## 220	100	5.760000
## 221	100	5.703333
## 222	100	5.656667
## 223	100	6.003333
## 224	100	5.753333
## 225	100	5.823333
## 226	100	5.693333
## 227	100	5.610000
## 228	100	5.840000
## 229	100	5.956667
## 230	100	5.830000

## 231	100	6.123333
## 232	100	5.723333
## 233	100	5.966667
## 234	100	5.913333
## 235	100	5.763333
## 236	100	5.796667
## 237	100	5.753333
## 238	100	5.700000
## 239	100	5.620000
## 240	100	5.823333
## 241	100	5.993333
## 242	100	5.983333
## 243	100	5.893333
## 244	100	5.753333
## 245	100	5.780000
## 246	100	5.953333
## 247	100	5.726667
## 248	100	6.010000
## 249	100	5.716667
## 250	100	5.686667
## 251	100	5.926667
## 252	100	5.803333
## 253	100	5.823333
## 254	100	6.063333
## 255	100	5.940000
## 256	100	6.103333
## 257	100	5.806667
## 258	100	5.680000
## 259	100	6.020000
## 260	100	5.713333
## 261	100	5.873333
## 262	100	5.806667
## 263	100	5.886667
## 264	100	5.810000
## 265	100	5.940000
## 266	100	5.903333
## 267	100	5.813333
## 268	100	5.790000
## 269	100	5.770000
## 270	100	5.963333
## 271	100	5.750000
## 272	100	5.903333
## 273	100	5.806667
## 274	100	5.890000
## 275	100	5.956667
## 276	100	6.043333
## 277	100	5.903333
## 278	100	5.770000
## 279	100	5.963333
## 280	100	5.643333
## 281	100	5.770000
## 282	100	5.606667
## 283	100	5.770000
## 284	100	5.896667

##	285	100	5.773333
##	286	100	5.876667
##	287	100	5.796667
##	288	100	5.926667
##	289	100	5.920000
##	290	100	5.713333
##	291	100	6.060000
##	292	100	5.716667
##	293	100	5.926667
##	294	100	5.970000
##	295	100	5.896667
##	296	100	5.643333
##	297	100	6.046667
##	298	100	5.986667
##	299	100	5.830000
##	300	100	5.830000
##	301	100	5.802000
##	302	100	5.854000
##	303	100	5.650000
##	304	100	5.900000
##	305	100	5.686000
##	306	100	5.678000
##	307	100	5.786000
##	308	100	5.776000
##	309	100	6.066000
##	310	100	5.974000
##	311	100	5.832000
##	312	100	5.564000
##	313	100	5.792000
##	314	100	5.688000
##	315	100	5.804000
##	316	100	5.888000
##	317	100	5.976000
##	318	100	5.722000
##	319	100	5.854000
##	320	100	5.788000
##	321	100	6.052000
##	322	100	5.990000
##	323	100	5.796000
##	324	100	5.784000
##	325	100	5.734000
##	326	100	5.668000
##	327	100	5.766000
##	328	100	5.934000
##	329	100	5.852000
##	330	100	5.752000
##	331	100	5.798000
##	332	100	5.748000
##	333	100	6.026000
##	334	100	5.776000
##	335	100	5.796000
##	336	100	5.848000
##	337	100	5.924000
##	338	100	5.980000

## 339	100	5.576000
## 340	100	5.796000
## 341	100	5.762000
## 342	100	5.936000
## 343	100	5.944000
## 344	100	5.654000
## 345	100	5.654000
## 346	100	5.832000
## 347	100	5.646000
## 348	100	5.798000
## 349	100	5.630000
## 350	100	5.914000
## 351	100	5.866000
## 352	100	5.644000
## 353	100	5.738000
## 354	100	5.916000
## 355	100	5.744000
## 356	100	5.728000
## 357	100	5.710000
## 358	100	5.856000
## 359	100	5.966000
## 360	100	5.740000
## 361	100	5.996000
## 362	100	5.982000
## 363	100	5.824000
## 364	100	5.894000
## 365	100	5.874000
## 366	100	5.876000
## 367	100	5.730000
## 368	100	5.968000
## 369	100	5.686000
## 370	100	5.984000
## 371	100	6.078000
## 372	100	5.878000
## 373	100	5.738000
## 374	100	5.772000
## 375	100	5.810000
## 376	100	5.770000
## 377	100	5.698000
## 378	100	5.800000
## 379	100	6.028000
## 380	100	5.858000
## 381	100	5.856000
## 382	100	5.780000
## 383	100	5.752000
## 384	100	5.574000
## 385	100	5.928000
## 386	100	6.142000
## 387	100	5.746000
## 388	100	5.684000
## 389	100	5.954000
## 390	100	5.836000
## 391	100	5.914000
## 392	100	5.732000

## 393	100	5.832000
## 394	100	6.030000
## 395	100	5.762000
## 396	100	5.802000
## 397	100	5.740000
## 398	100	5.886000
## 399	100	5.800000
## 400	100	5.724000
## 401	100	5.738000
## 402	100	5.944000
## 403	100	5.898000
## 404	100	5.968000
## 405	100	6.000000
## 406	100	5.648000
## 407	100	5.802000
## 408	100	5.966000
## 409	100	5.968000
## 410	100	5.924000
## 411	100	5.930000
## 412	100	6.062000
## 413	100	5.852000
## 414	100	5.810000
## 415	100	5.932000
## 416	100	5.870000
## 417	100	6.014000
## 418	100	5.832000
## 419	100	5.982000
## 420	100	6.170000
## 421	100	5.858000
## 422	100	5.772000
## 423	100	5.804000
## 424	100	5.894000
## 425	100	5.676000
## 426	100	5.816000
## 427	100	5.964000
## 428	100	5.752000
## 429	100	5.804000
## 430	100	5.870000
## 431	100	5.890000
## 432	100	5.824000
## 433	100	5.734000
## 434	100	5.878000
## 435	100	5.894000
## 436	100	5.938000
## 437	100	6.064000
## 438	100	5.894000
## 439	100	5.910000
## 440	100	5.962000
## 441	100	5.886000
## 442	100	5.710000
## 443	100	5.788000
## 444	100	5.752000
## 445	100	5.806000
## 446	100	5.972000

## 447	100	5.658000
## 448	100	5.894000
## 449	100	5.984000
## 450	100	5.996000
## 451	100	5.846000
## 452	100	5.874000
## 453	100	5.972000
## 454	100	5.890000
## 455	100	5.864000
## 456	100	5.828000
## 457	100	5.812000
## 458	100	6.094000
## 459	100	5.832000
## 460	100	5.652000
## 461	100	6.002000
## 462	100	5.904000
## 463	100	5.782000
## 464	100	5.912000
## 465	100	5.904000
## 466	100	5.798000
## 467	100	5.822000
## 468	100	5.802000
## 469	100	5.844000
## 470	100	6.026000
## 471	100	5.882000
## 472	100	5.636000
## 473	100	6.018000
## 474	100	5.482000
## 475	100	5.672000
## 476	100	5.882000
## 477	100	5.716000
## 478	100	5.644000
## 479	100	5.852000
## 480	100	5.856000
## 481	100	5.912000
## 482	100	5.842000
## 483	100	5.888000
## 484	100	5.716000
## 485	100	5.902000
## 486	100	5.782000
## 487	100	5.798000
## 488	100	5.626000
## 489	100	6.000000
## 490	100	5.842000
## 491	100	5.740000
## 492	100	5.960000
## 493	100	5.810000
## 494	100	6.048000
## 495	100	6.060000
## 496	100	5.846000
## 497	100	5.772000
## 498	100	5.882000
## 499	100	5.814000
## 500	100	5.810000

## 501	100	5.958000
## 502	100	5.766000
## 503	100	5.866000
## 504	100	5.636000
## 505	100	5.946000
## 506	100	5.776000
## 507	100	5.856000
## 508	100	5.794000
## 509	100	5.812000
## 510	100	5.890000
## 511	100	5.828000
## 512	100	5.728000
## 513	100	5.846000
## 514	100	5.888000
## 515	100	5.670000
## 516	100	5.974000
## 517	100	5.936000
## 518	100	5.718000
## 519	100	5.882000
## 520	100	5.856000
## 521	100	5.956000
## 522	100	5.650000
## 523	100	5.980000
## 524	100	5.770000
## 525	100	5.864000
## 526	100	6.004000
## 527	100	5.510000
## 528	100	5.822000
## 529	100	5.982000
## 530	100	5.906000
## 531	100	5.592000
## 532	100	5.884000
## 533	100	6.144000
## 534	100	5.716000
## 535	100	5.844000
## 536	100	5.752000
## 537	100	5.794000
## 538	100	5.694000
## 539	100	5.836000
## 540	100	5.992000
## 541	100	5.732000
## 542	100	5.772000
## 543	100	6.040000
## 544	100	5.726000
## 545	100	6.014000
## 546	100	5.990000
## 547	100	5.610000
## 548	100	5.720000
## 549	100	5.874000
## 550	100	5.614000
## 551	100	5.630000
## 552	100	5.794000
## 553	100	5.804000
## 554	100	5.764000

## 555	100	5.928000
## 556	100	5.762000
## 557	100	5.866000
## 558	100	5.872000
## 559	100	5.734000
## 560	100	5.864000
## 561	100	5.796000
## 562	100	5.712000
## 563	100	5.678000
## 564	100	5.982000
## 565	100	5.858000
## 566	100	5.924000
## 567	100	5.848000
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##	14246	100	5.720000
##	14247	100	5.790000
##	14248	100	6.058000
##	14249	100	5.930000
##	14250	100	5.716000
##	14251	100	5.822000
##	14252	100	5.752000
##	14253	100	5.760000
##	14254	100	5.764000
##	14255	100	5.912000
##	14256	100	5.884000
##	14257	100	5.762000
##	14258	100	5.816000
##	14259	100	5.722000
##	14260	100	5.888000
##	14261	100	5.846000
##	14262	100	5.784000
##	14263	100	5.676000
##	14264	100	5.772000
##	14265	100	5.838000
##	14266	100	5.902000
##	14267	100	5.794000
##	14268	100	5.924000
##	14269	100	5.846000
##	14270	100	5.746000

```
## 14271 100 5.758000
## 14272 100 5.722000
## 14273 100 5.994000
## 14274 100 5.892000
## 14275 100 5.976000
## 14276 100 5.920000
## 14277 100 5.870000
## 14278 100 5.894000
## 14279 100 5.800000
## 14280 100 5.680000
## 14281 100 5.666000
## 14282 100 5.968000
## 14283 100 5.844000
## 14284 100 5.800000
## 14285 100 5.734000
## 14286 100 5.722000
## 14287 100 5.876000
## 14288 100 5.740000
## 14289 100 5.838000
## 14290 100 5.928000
## 14291 100 5.572000
## 14292 100 5.764000
## 14293 100 5.874000
## 14294 100 5.854000
## 14295 100 5.812000
## 14296 100 5.634000
## 14297 100 5.768000
## 14298 100 5.612000
## 14299 100 5.690000
## 14300 100 5.658000
```

```
dfm %>%
  group_by(df$test) %>%
  summarise(mean1 = mean(mean_list, na.rm = TRUE))
```

```
## # A tibble: 1 x 1
##   mean1
##   <dbl>
## 1  5.84
```