

DS_HW_2

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```
library(tidyverse)

## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr      1.1.4      v readr      2.1.5
## v forcats    1.0.0      v stringr    1.5.1
## v ggplot2     3.4.4      v tibble     3.2.1
## v lubridate   1.9.3      v tidyr      1.3.1
## v purrr       1.0.2
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()     masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors

tribble( ~x, ~y, ~w, ~z,
          210, 300, 220, 180,
          102, 100, 119, 187,
          176, 175, 188, 173,
          87, 95, 91, 94,
          202, 210, 234, 218,
          110, 122, 131, 128,
) -> dt
dt

## # A tibble: 6 x 4
##       x     y     w     z
##   <dbl> <dbl> <dbl> <dbl>
## 1  210   300   220   180
## 2  102   100   119   187
## 3  176   175   188   173
## 4   87    95    91    94
## 5  202   210   234   218
## 6  110   122   131   128

#1.a
map_dbl(dt, mean)

##       x         y         w         z
## 147.8333 167.0000 163.8333 163.3333

map_dbl(dt, sd)

##       x         y         w         z
## 54.45151 79.12016 58.40348 44.66617

map(dt, sqrt)
```

```
## $x
## [1] 14.491377 10.099505 13.266499 9.327379 14.212670 10.488088
##
## $y
## [1] 17.320508 10.000000 13.228757 9.746794 14.491377 11.045361
##
## $w
## [1] 14.832397 10.908712 13.711309 9.539392 15.297059 11.445523
##
## $z
## [1] 13.41641 13.67479 13.15295 9.69536 14.76482 11.31371
```

```
summary(dt)
```

```
##           x           y           w           z
## Min.      : 87.0   Min.      : 95.0   Min.      : 91.0   Min.      : 94.0
## 1st Qu.:104.0   1st Qu.:105.5   1st Qu.:122.0   1st Qu.:139.2
## Median :143.0   Median :148.5   Median :159.5   Median :176.5
## Mean      :147.8   Mean      :167.0   Mean      :163.8   Mean      :163.3
## 3rd Qu.:195.5   3rd Qu.:201.2   3rd Qu.:212.0   3rd Qu.:185.2
## Max.      :210.0   Max.      :300.0   Max.      :234.0   Max.      :218.0
```

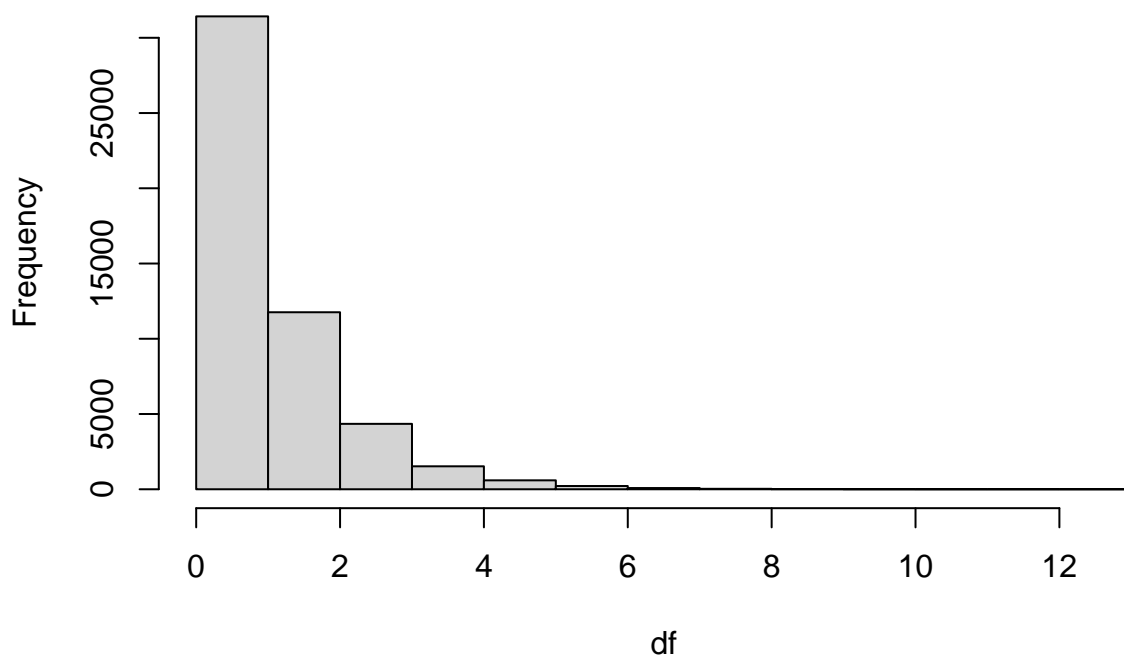
```
#part 2 setup
```

```
df <- c()
for (val in 1:10000){
  rexp(5) ->
  new_val
  meanval <- mean(new_val)
  df <- append(df,new_val)
}
head(df)
```

```
## [1] 0.489620054 2.732350280 0.545083645 1.516503982 0.005728114 1.179983889
```

```
hist(df)
```

Histogram of df



```
nf <- c()
map_dbl(1:10000, ~mean(rexp(5)))
```

```
##      [1] 0.54123427 0.28292186 2.11093834 1.26323880 0.92349170 0.36518385
##      [7] 0.46637678 0.75900817 0.36457524 1.08159011 0.93600439 0.98452473
##     [13] 1.39592688 0.44894764 1.17231536 0.99678883 0.49492210 1.84694890
##     [19] 0.43987334 1.15121489 0.45213980 0.66434118 0.92869287 0.86791621
##     [25] 1.35595239 0.45543107 0.42972651 1.05378354 1.18046071 0.49045228
##     [31] 0.54413531 1.51230112 0.94194534 1.77422952 1.23076279 1.71669652
##     [37] 0.35454467 1.01390089 1.03219450 1.38958145 1.37379813 0.47092968
##     [43] 1.10688443 0.38526444 0.72051367 0.89552329 0.69408737 0.63230661
##     [49] 1.42834783 1.29944355 0.75890709 0.38378693 0.64401203 0.96919697
##     [55] 0.59657041 1.04337722 1.27729650 0.93078816 0.82408035 0.83922856
##     [61] 0.61249527 0.42267608 1.12587304 0.90691216 0.43226473 0.52001508
##     [67] 0.63810521 1.33330510 0.87342903 0.85561419 1.27397076 0.66296291
##     [73] 1.83408791 0.61036068 2.07142502 0.22948362 0.80329931 1.83080029
##     [79] 0.97526624 1.37549600 1.09612277 0.80024678 1.59777725 1.02503390
##     [85] 0.70693615 1.06915013 0.58414156 1.37020309 0.61468072 1.16179511
##     [91] 0.47435686 0.83884099 1.41274412 1.03187994 0.93893773 1.06564534
##     [97] 0.96714208 1.01006875 0.76666785 1.39523267 2.09974813 1.19430724
##    [103] 1.09017628 0.99651423 1.91213330 0.73525061 0.87476096 0.81504926
##    [109] 1.19093915 0.92121295 0.47944196 1.86209413 1.03990744 0.50133670
##    [115] 1.11163490 1.04346454 0.63656900 0.54968878 0.86887293 1.06246193
##    [121] 0.58133138 1.55313730 0.47770211 1.10842987 0.41598322 1.11994050
##    [127] 1.29005653 0.62936671 1.74583402 0.84905192 0.64821914 0.93710703
##    [133] 0.87428270 0.62805652 0.53306409 0.82382671 0.64167364 0.53628903
##    [139] 0.49060130 1.40174423 1.19900665 1.61008269 1.14789317 1.41495927
##    [145] 0.48549518 0.37154999 1.05295711 0.93005473 2.07483103 0.58295054
##    [151] 1.19126074 2.07175413 1.01370471 0.63825605 0.73077936 1.12455496
##    [157] 2.41349630 2.40952183 0.36068042 0.58874277 0.96140715 0.57829864
```

```

## [163] 0.95540222 0.64355172 1.18673699 0.33533474 0.96805990 0.18530564
## [169] 0.64144300 0.95932435 1.35333126 0.92180218 0.41077988 0.34874007
## [175] 0.94669504 1.66095967 1.86002837 0.45336280 0.68165725 0.55518117
## [181] 0.48538612 0.39714517 1.92631896 0.36817376 1.68172217 1.36481522
## [187] 0.96846825 1.28490529 2.07465193 1.06762920 1.22996964 0.34303526
## [193] 0.85247925 0.64181867 0.82476746 0.91333972 0.67066554 1.84582241
## [199] 0.89172746 0.92081997 1.90244051 0.45098613 0.56418081 1.18075792
## [205] 1.29480333 0.46041399 0.84343656 1.97550403 0.37381879 1.66809214
## [211] 1.76363807 0.88007484 1.30421946 2.11252279 2.20978563 0.77914615
## [217] 1.40298450 0.83132078 1.20339431 1.11642392 0.78174860 0.35909014
## [223] 0.97547200 0.36854555 0.34335569 1.24956688 0.59711015 0.39801531
## [229] 1.96799921 0.73829179 1.64994252 0.72977342 1.14853195 0.27825526
## [235] 0.91286000 0.71562515 0.66034842 0.37071405 0.44596642 1.11830290
## [241] 1.05997320 1.61018320 2.22809635 1.00522677 0.62366502 1.29855678
## [247] 1.45712626 0.57775389 0.72026067 0.48371973 1.24491609 0.32655055
## [253] 1.18164547 0.60646990 0.89402820 0.61161631 1.16896195 0.28407543
## [259] 0.32737893 0.79538342 0.53660432 0.87085342 1.30592216 1.55068978
## [265] 0.49111407 1.76982917 0.47883073 0.68212968 1.10244211 2.25057515
## [271] 0.80150011 0.47224791 0.83050399 1.56752336 1.61160522 0.89416786
## [277] 0.64346682 0.92509954 1.63765866 0.92745871 2.19981034 1.09731582
## [283] 1.04087727 0.69231104 1.18614679 1.10886089 1.77269287 0.88211348
## [289] 0.75074000 0.41633899 1.03734987 1.37106269 1.16947502 1.39715373
## [295] 0.76018269 1.41329682 1.23712144 0.70598130 1.37896912 0.95885355
## [301] 1.29392940 1.82588968 0.78768183 0.68394703 1.58954423 1.34323491
## [307] 0.99564033 1.07867674 0.21058836 0.35556912 1.01901157 0.43326320
## [313] 1.54283046 0.79210157 1.97931456 1.32465342 1.13430000 0.59416745
## [319] 1.08786840 0.76523645 1.69226196 0.72197749 0.58797155 1.20275213
## [325] 0.67484591 1.39273421 0.75597527 0.55049067 1.13050395 1.29004155
## [331] 0.77058823 1.37395165 0.55356882 1.60553296 1.07980626 0.54035200
## [337] 0.45003060 1.30823767 1.82410793 0.86267675 1.02014009 0.95228654
## [343] 1.16436760 1.72132850 1.08285719 0.60065060 1.11090240 0.93849267
## [349] 0.49651987 1.22909683 0.44305294 1.26735221 1.65976027 0.85169415
## [355] 0.42475005 0.84878725 2.04949339 1.60886831 1.01908213 0.64593781
## [361] 0.60973120 0.60427494 1.24878910 0.93064646 0.30609218 1.58122193
## [367] 0.87912808 1.03881486 0.92725100 0.83935208 0.54781412 1.83411880
## [373] 0.74481801 0.75274648 0.72113827 0.78915146 1.00558403 2.77201320
## [379] 1.31934068 0.65667781 0.51584600 0.96974463 1.05128751 0.90692709
## [385] 2.39560569 1.48041452 1.04789570 1.42110529 1.17760176 0.59290511
## [391] 0.89639766 1.12098227 0.43811397 1.08718169 1.45582435 0.77536125
## [397] 0.57869871 1.47020520 0.89484654 0.64486800 0.74623887 0.90039858
## [403] 2.57169799 1.05932064 1.56503208 0.83876009 0.77278133 1.28864912
## [409] 1.44824235 1.49110933 1.62210897 0.78301038 0.73281819 1.20792976
## [415] 0.62200179 0.39784662 1.33770648 1.86568852 1.27342792 1.20246725
## [421] 1.06119890 1.48019510 0.75647725 1.30628046 0.66100420 0.74219458
## [427] 2.07350867 1.12529181 0.91410554 0.65555345 0.78079934 0.72047381
## [433] 0.35400001 0.77399189 1.15175633 0.86383264 0.35409532 1.50435455
## [439] 0.35578210 1.29006890 0.80016467 1.25196037 0.56185954 0.36647823
## [445] 1.20889778 1.04199300 1.30591620 0.65324975 2.55483931 0.77819663
## [451] 0.87966865 0.76861438 0.75073959 2.04737920 1.38073064 1.34419103
## [457] 0.63421259 0.89417274 0.99240272 1.24464178 1.22544585 0.47227857
## [463] 0.68180284 0.80840000 0.92222952 0.85109508 0.78654414 0.85409684
## [469] 0.79859359 0.35137445 0.80506014 0.86035798 1.11172332 1.89468893
## [475] 1.25893731 0.96064638 0.76952793 0.99368765 0.56676453 0.77310445
## [481] 0.79873893 0.62458645 1.44382159 1.74139340 0.76233247 0.74668589

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## [487] 0.98824196 0.95756175 1.07756092 1.06619277 0.56281509 1.58310924
## [493] 0.70566171 0.69047359 1.87812464 1.87732000 0.98934417 0.95656127
## [499] 1.22839492 0.61383620 0.76620646 0.74775055 1.94232043 1.74394761
## [505] 1.61287355 0.51170066 0.92251450 0.62741261 0.97840579 1.59044614
## [511] 1.08310677 1.79184981 0.78627720 1.56516118 1.90898411 0.73811498
## [517] 0.37625545 0.95489424 0.88188720 0.97280746 1.61228490 0.33790144
## [523] 0.58756493 0.68709331 1.51950361 0.95391454 0.67516269 1.26746619
## [529] 0.97246794 0.98358558 1.79915829 1.45850779 0.97559214 0.43515675
## [535] 1.31169740 0.79927934 1.52201867 1.11290198 1.84322989 1.05116860
## [541] 0.60881231 2.07020873 1.03000461 0.60270641 0.57145050 0.93557729
## [547] 1.43850348 0.95119436 0.87988478 1.31702396 0.43112153 0.90672678
## [553] 1.29653578 1.00084414 1.56443209 0.74229542 0.72079491 0.52259360
## [559] 1.18243890 1.15123196 1.09150386 0.86529122 0.51350711 1.28246799
## [565] 1.57538003 1.13589510 1.00806581 1.28134794 0.71470190 0.47448302
## [571] 0.58560121 1.24089465 0.60998617 1.28396391 1.38898566 1.30752159
## [577] 1.54277024 0.78912990 1.54177246 0.88255173 1.18673028 0.89588644
## [583] 0.76228774 1.67022669 1.05975035 1.83397903 0.87024890 1.69243049
## [589] 1.89251361 0.62524394 0.76248715 1.10547834 0.56567172 0.65894896
## [595] 1.06608326 0.35704750 0.97112490 1.24832270 1.06912504 0.77633505
## [601] 0.69638209 1.60464069 0.57791972 0.53442972 0.33633152 0.86761455
## [607] 0.80965782 0.99863337 1.06540219 0.60101690 1.59554502 1.20660205
## [613] 0.69309776 1.10269038 1.03633605 0.55237164 0.59680512 0.88975167
## [619] 0.81079799 0.87340931 1.05728349 0.16138583 0.86637297 0.79232628
## [625] 1.77474934 0.46675804 1.40354174 0.36315481 0.62468777 0.67143048
## [631] 0.80861608 0.72090178 0.78445823 1.17080164 0.50712946 0.69956443
## [637] 0.67429592 1.24347610 0.62831358 0.90113804 0.39571602 1.07812217
## [643] 0.84488861 1.36210898 1.16093617 0.80953776 0.38025340 0.54134450
## [649] 0.75801373 1.53160793 0.35738444 0.54307977 0.37052004 0.45335229
## [655] 1.09439785 0.32148453 0.63854532 1.54074470 0.53857394 0.73799201
## [661] 1.67101703 0.54218057 0.31821080 0.94410848 0.91827813 1.63172016
## [667] 1.71272684 0.85410805 1.74836382 0.61773686 0.85511338 0.21685567
## [673] 0.88639722 2.16659948 0.90994076 0.61754174 0.28585760 0.68120682
## [679] 1.31388583 1.17962390 0.70476162 2.76795856 1.12939668 0.59873923
## [685] 0.97543503 1.34258176 0.88789821 0.64974108 0.68930752 1.15357369
## [691] 1.42004439 1.18415543 0.82547034 0.80699043 0.95722529 0.97780793
## [697] 0.56636843 0.56644073 0.75342914 1.26139695 2.50148721 1.85226525
## [703] 0.88655142 1.61176275 0.57033014 1.04480653 0.68273088 1.22724126
## [709] 1.36284990 0.32915530 2.08758524 0.55426124 0.98123345 1.13394863
## [715] 2.23204550 1.06413754 0.87177762 0.57851045 0.70295733 1.92843087
## [721] 1.34087073 0.64024517 0.54315538 0.77576627 0.48203413 0.72984989
## [727] 0.32269793 1.31274287 1.09924715 2.15512278 1.03024169 0.76397693
## [733] 1.12519473 0.34790969 0.60725547 0.81003244 0.26883886 0.56199521
## [739] 0.87369743 0.49849168 0.50183510 1.02977531 1.40045856 1.56335492
## [745] 0.72559519 0.78162083 1.59322648 0.30734866 0.91074451 0.77361841
## [751] 0.58449978 0.97611531 1.95053648 1.56918295 0.78847963 1.25303607
## [757] 1.12241928 1.24725170 0.71275451 1.05885245 0.75779676 1.08866442
## [763] 0.78938205 0.88687827 1.25163063 1.29583921 0.62418109 0.50766562
## [769] 1.24754043 1.76140888 0.43452541 0.63093504 1.60196415 0.57500039
## [775] 0.95111045 0.89371414 1.06496021 2.59087944 1.32961744 0.68289362
## [781] 0.75998743 0.83566291 0.95497499 0.85263983 1.33431258 2.42455582
## [787] 0.95341533 0.96181998 2.27773362 0.69676006 0.86129437 0.55156326
## [793] 1.04772442 0.82410808 0.73012290 0.81767686 1.17371673 0.80664873
## [799] 0.87805071 0.23941314 0.47347545 0.44539591 1.33387190 1.13319981
## [805] 0.46964678 1.51187124 0.90972773 1.78527690 1.33896884 0.94910301

```

```

## [811] 0.81494102 1.30115106 2.18021766 0.95476131 1.11921921 1.25225354
## [817] 0.56969845 1.89929936 1.02818527 1.16091260 0.85040266 0.53426621
## [823] 1.31673098 1.11687752 1.18122801 1.05953478 1.20318494 0.56128403
## [829] 0.85824636 1.29587241 0.44910256 0.70693950 0.82357300 0.31080732
## [835] 0.45225269 1.20987143 1.06773009 0.80508957 0.81141121 0.51034309
## [841] 2.00362352 2.38062597 0.85512712 0.97464618 1.92198366 1.30276223
## [847] 1.05702449 0.69401073 0.41876225 0.49990426 0.72016655 1.39214976
## [853] 0.97208691 0.78576269 0.86120379 1.06432224 0.24858007 1.27737864
## [859] 0.77626627 0.73205278 2.01136173 1.26345804 0.36913506 1.17954326
## [865] 1.51665502 1.17392449 0.55219438 1.33198397 0.48401109 1.39117713
## [871] 0.42070236 1.51372487 0.63917954 0.85243259 0.69470890 0.74655119
## [877] 0.36937067 1.33071276 1.12221346 1.18451051 2.02651124 0.51133698
## [883] 0.62625754 1.79571939 1.59634494 0.58160864 0.95380708 1.26404912
## [889] 0.69329260 0.93711896 0.66325094 1.01831337 0.33942417 0.37327233
## [895] 1.45512096 0.50947467 0.44265951 0.64116481 1.31061719 1.11607897
## [901] 0.67425301 0.65114143 1.15098648 0.62991721 0.23022575 1.23583378
## [907] 1.05058805 0.90435931 1.19642096 1.72508008 1.71325065 0.57515780
## [913] 0.72646674 1.20840834 0.70802596 0.85247315 1.46918341 0.72968610
## [919] 1.35669784 0.73925831 0.20501443 0.26553895 1.11937463 1.42842405
## [925] 0.78010224 1.22338639 0.55948393 1.09141134 1.49384780 1.09320275
## [931] 0.36310331 0.87432186 1.76679172 0.95891655 0.40873287 1.55788121
## [937] 0.95309531 0.74431851 0.96321190 0.26675554 1.61856655 1.32534083
## [943] 1.05669566 1.30667038 0.48025739 0.29759664 1.15504746 1.06806289
## [949] 1.29271130 1.50245826 0.78228673 1.56196920 0.58632045 0.86909562
## [955] 1.32955412 1.06828936 0.49223962 0.59957405 0.61823854 1.04962024
## [961] 0.99324462 0.54114444 1.47425060 0.85854378 1.08418446 0.43418080
## [967] 1.15738439 1.70292022 0.55625632 1.39038005 2.41225645 0.65573273
## [973] 0.92978632 0.61363073 1.12023413 0.51665755 0.55190266 0.75296001
## [979] 1.00345264 0.87052624 1.03805775 0.39531587 0.49307515 0.57954063
## [985] 0.63157600 0.47305070 0.53845168 0.60741971 1.27338073 0.54210755
## [991] 1.21726605 0.54364705 1.16065514 0.93069729 0.31240109 0.44840802
## [997] 0.98796601 0.69568253 0.74779931 0.51327995 1.64049946 1.72360773
## [1003] 1.45231230 1.01506065 0.86646926 0.78863363 0.94514521 0.74730109
## [1009] 0.63466825 0.85702249 0.94568085 0.28331402 1.24504045 0.84736370
## [1015] 0.52853919 0.90982394 0.56834199 0.96451134 1.49044885 0.89303723
## [1021] 0.94988702 1.10805211 1.48534516 0.35570898 0.41554543 0.91822595
## [1027] 0.73203625 0.86275973 0.40858960 1.08359795 1.88800002 1.68304385
## [1033] 1.29083571 0.79809491 0.78219189 0.98087235 0.63954260 0.93175581
## [1039] 0.71026444 1.16901381 1.33247222 0.22837699 0.58459561 0.77839972
## [1045] 0.71607664 0.98632322 0.74348118 0.98167768 0.62891784 0.31411213
## [1051] 2.07247195 1.78600989 1.32608887 2.11506761 1.24452953 1.11328496
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## [9865] 1.57758222 1.27195067 2.41041010 0.89515446 1.10198258 1.57904204
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## [9877] 1.72813502 0.63393045 0.90039084 1.06177823 1.22729228 1.73969773

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## [9883] 0.23533704 0.29958990 0.92007267 1.04293550 0.54011358 0.52500034
## [9889] 1.34007026 1.00865104 1.64924007 1.10670734 1.17343696 0.73165572
## [9895] 0.81812017 2.68820929 0.32423881 1.51688708 0.42143854 0.76936893
## [9901] 0.89621318 1.42831109 1.14962679 3.40849432 1.05107859 0.48230266
## [9907] 0.91027775 0.62844453 1.24979213 0.99230530 0.79773451 0.92082058
## [9913] 0.62162508 1.87897185 1.09677641 1.04700836 1.18982521 0.71637233
## [9919] 1.12744977 0.53012015 1.04862118 1.52296642 0.29939787 1.20943202
## [9925] 0.85911918 0.92033774 1.27649641 1.08116037 1.55923124 0.29952853
## [9931] 0.69295210 1.25228228 0.37153485 1.84202257 1.02031801 0.93860520
## [9937] 0.64705479 0.97830250 0.97026781 1.36338370 1.14061397 1.05890646
## [9943] 0.59063631 0.69930862 1.08141402 0.92034992 0.37293499 1.54362327
## [9949] 1.84334065 1.36774887 0.64498704 1.17423027 0.69580841 0.61492200
## [9955] 0.33796248 1.35489936 1.42128824 1.31672912 0.73984088 0.80619399
## [9961] 0.52451405 0.61359698 0.62795979 0.75435397 0.58762733 1.00034250
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## [9973] 1.45921434 0.39694582 1.08384197 1.80632717 1.23875619 0.69982755
## [9979] 0.75778256 1.29610807 1.43178242 0.89750385 0.62774965 1.54207210
## [9985] 2.01048169 0.63177401 1.50512100 1.67897951 0.65692019 1.01722241
## [9991] 1.29489691 0.52499297 1.06505700 0.31798477 0.65708001 0.72366744
## [9997] 1.07263210 1.51005682 0.48272533 1.00269902
```

```
nf <- replicate(10000, mean(rexp(5)))
nf
```

```
## [1] 0.85430090 0.85383801 1.48167894 1.06805423 1.18632455 0.58341269
## [7] 1.45938754 0.46288313 0.67407346 0.62735020 1.14364528 2.17816018
## [13] 0.87902183 1.03577434 0.79201122 1.49421431 1.36714564 1.10442895
## [19] 0.72941617 0.98555901 0.90903676 1.39046187 1.56997439 1.04253004
## [25] 0.58927609 0.74077044 1.66459420 0.49540652 1.15120963 1.40863943
## [31] 1.04471571 1.13738861 0.64495717 0.31333576 0.49094006 1.24394668
## [37] 0.44106220 0.34450873 1.13578853 2.46874866 1.08244065 0.58091663
## [43] 0.48788245 0.61366516 0.45039673 0.94068950 1.04286910 0.73670562
## [49] 0.52004669 0.58680495 0.97678477 1.45803592 0.85034638 1.19318967
## [55] 0.78331867 0.79107351 0.76022611 1.37841695 1.27487136 1.57662991
## [61] 1.30302243 1.23188441 0.83604322 1.12352225 1.06648517 1.59204149
## [67] 0.54720592 0.80783607 0.84601848 0.65325254 0.73783133 0.50470534
## [73] 1.07343516 0.66442183 0.57650647 0.72525590 1.12620758 0.51663079
## [79] 0.76514323 2.15646772 1.61039106 1.18314149 1.28941409 0.92353158
## [85] 1.48967800 0.30856323 0.44765607 0.93849819 1.05905073 1.82013021
## [91] 0.85613013 0.95950941 1.88447195 0.65098642 1.28007723 1.34316327
## [97] 0.64316411 0.86363597 1.91976633 1.30422139 1.04489411 0.27654083
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## [109] 0.95398933 0.80657372 1.01782136 1.15700054 0.65291309 0.94699231
## [115] 0.90521898 0.68345342 1.17779484 0.36774639 1.78295820 0.80488132
## [121] 2.74635298 0.79201056 0.39433097 0.39833631 1.52271898 1.01931266
## [127] 1.10268617 1.01473848 0.75626704 0.43142602 0.77333498 1.14061661
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## [139] 0.79017695 0.68402808 0.95108175 0.79105090 0.58026073 2.79805439
## [145] 0.77310586 1.52825649 1.53324307 1.04337621 1.27595269 1.18077526
## [151] 0.53529459 0.44725525 0.85904088 1.18499771 0.56207592 0.49016644
## [157] 0.84414013 2.22938790 1.17751300 0.77363489 0.75563937 0.71502665
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## [169] 0.80912400 0.94575422 0.44319006 1.02712873 0.72190573 0.46152620
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## [181] 0.50222603 1.14138450 1.34049784 0.51223217 1.13213829 0.49657620
```

```

## [187] 1.33106567 0.92229051 0.65315939 1.98577524 0.96219330 0.35081501
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## [9397] 0.78796506 1.24179465 2.01931525 1.09778211 0.58793287 0.83260894
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## [9421] 0.58338306 0.24899455 1.35272465 0.71945975 2.10587883 0.49343208
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## [9439] 0.63525279 0.95052719 1.30199381 0.47798268 0.82282316 1.32960896
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## [9451] 1.31175680 1.00688678 0.85729713 1.70549823 1.33496144 0.60349149
## [9457] 1.17510756 1.69264493 1.26343626 0.63688946 1.06322841 0.96921099
## [9463] 0.48318816 1.00677723 1.28652862 0.67776418 0.60983432 1.53398026
## [9469] 0.81685244 0.67758321 1.84627316 0.40742058 0.70530089 0.77892753
## [9475] 0.74788499 1.56683788 0.49466444 1.82717220 0.60998210 0.64075146
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## [9487] 0.36096097 0.76652091 1.08555723 0.76733703 0.68009182 1.11282181
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## [9535] 1.24908890 0.63651995 1.39370602 0.52938230 0.71537660 1.51335613
## [9541] 1.19841599 2.01959182 1.27954819 1.52668389 1.07874170 0.51773529
## [9547] 0.50807109 0.51979214 0.48300922 1.17508724 1.56551235 1.23732803
## [9553] 1.30131131 1.42967594 0.65824194 1.28146321 1.17615216 0.75093976
## [9559] 0.92466632 1.33840238 0.52049457 0.57033752 0.74022050 0.70551013
## [9565] 0.72000914 1.25577191 0.66239540 0.79869178 0.75869694 0.95465920
## [9571] 0.49069090 0.88431808 0.46643604 0.86716475 1.22388112 1.56343583
## [9577] 0.77045279 0.74939238 0.91892517 1.10681117 0.53136658 1.27146787

```

```

## [9583] 0.59531170 1.13841390 0.80105001 1.08718513 0.53953789 0.37577774
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## [9607] 0.70861661 1.20547952 0.63643944 0.58007543 1.07948934 1.54238075
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## [9619] 0.55145222 0.70049701 0.99984212 0.82088494 0.66066475 1.42153911
## [9625] 1.32732229 1.76038994 1.01734933 1.09977984 0.55402919 1.58271314
## [9631] 0.63758852 1.09612905 0.52254168 0.92573805 1.34680948 0.94806325
## [9637] 1.22920621 1.11667171 1.17251332 1.36903509 1.82828138 1.14153920
## [9643] 1.28905673 1.05092267 0.61856167 0.46957993 1.02055920 0.86488619
## [9649] 0.40334872 0.90307311 0.88798673 1.66603196 1.13358628 0.69024765
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## [9709] 0.93507263 0.91312674 0.71549258 2.16060035 0.57109554 0.75799952
## [9715] 1.47001334 1.43990426 1.60823268 0.98691874 0.64972043 0.52277565
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## [9787] 0.99307423 1.38212372 0.60519749 0.47650036 2.04648798 0.93269229
## [9793] 0.26229383 0.66835730 1.07415538 1.66902888 0.50865936 0.39906875
## [9799] 0.60237204 0.34515916 1.01550005 0.75359728 1.73996820 0.94200934
## [9805] 0.84646590 1.00231813 1.06884593 0.94512324 0.22575637 1.19817407
## [9811] 1.35204007 0.93364691 0.67334048 0.93473372 1.16674586 0.49292499
## [9817] 0.54923496 0.97916369 1.49715314 0.96492602 1.16623308 0.57645249
## [9823] 0.76793340 1.49830122 1.13271227 0.46034378 1.23827514 1.66669020
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## [9841] 0.64714594 1.04529887 1.01083380 0.86391017 0.58626102 1.26464140
## [9847] 1.42977330 1.43357771 1.01974314 0.88538574 1.25814408 1.29090929
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## [9871] 0.70049553 0.90509467 1.33120796 1.26112069 1.28895417 1.22222765
## [9877] 0.98960994 0.47866119 0.54915929 1.68130538 0.91171111 1.54254310
## [9883] 0.58183737 0.47080013 1.12809465 1.09944155 0.86464003 0.99679661
## [9889] 0.80029037 1.03486758 0.36128489 1.04141488 1.17443147 2.35691446
## [9895] 0.80737495 0.76471970 0.64923439 0.49926850 0.99982544 1.04084651
## [9901] 0.52321856 0.79171265 1.07930327 2.07928837 1.07198857 0.50165350

```



```
## [9907] 1.47358016 0.34849945 1.01698217 0.50662548 1.16721952 1.37249306
## [9913] 0.73530776 0.76699583 0.66384260 0.83340172 1.17832404 0.81423362
## [9919] 1.14864791 0.95335424 1.34149327 0.64053942 0.23964413 0.84801195
## [9925] 0.60160517 0.82746983 0.92901499 1.13209299 0.76681387 2.22987836
## [9931] 0.86582567 1.26707498 1.19533480 0.96473632 0.94442200 1.30841836
## [9937] 1.27795723 0.99763516 0.76957777 0.71343375 0.36697291 0.36451624
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## [9967] 1.49445148 0.64398723 0.79418733 1.03951903 0.60944439 2.20915509
## [9973] 1.30936953 0.83175495 0.99116150 1.00857914 1.31232303 3.23136122
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## [9985] 1.87919440 1.31189236 0.80193460 0.92397750 1.20445780 0.63317099
## [9991] 1.40785168 1.36954021 1.29497654 0.72105798 0.90684647 0.91447295
## [9997] 0.56867985 1.48507292 0.20967931 0.77664907
```

```
val <- c(5, 10, 20)
for (item in val){
  nf <- replicate(10000, mean(rexp(item,)))
  hist(nf,
       main = item)
}
```

5

