

## Intro to Data Science - HW 3

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*# 1. I did this homework by myself, with help from the book and the professor.*

### Reminders of things to practice from last week:

Make a data frame `data.frame()` Row index of max/min which `max()` which `min()` Sort value or order rows `sort()` order `order()` Descriptive statistics `mean()` `sum()` `max()` Conditional statement `if (condition)` “true stuff”  
else “false stuff”

### This Week:

Often, when you get a dataset, it is not in the format you want. You can (and should) use code to refine the dataset to become more useful. As Chapter 6 of Introduction to Data Science mentions, this is called “data munging.” In this homework, you will read in a dataset from the web and work on it (in a data frame) to improve its usefulness.

### Part 1: Use `read_csv()` to read a CSV file from the web into a data frame:

- A. Use R code to read directly from a URL on the web. Store the dataset into a new dataframe, called `dfComps`. The URL is: “<https://intro-datascience.s3.us-east-2.amazonaws.com/companies1.csv>” **Hint:** use `read_csv()`, not `read.csv()`. This is from the **tidyverse package**. Check the help to compare them.

```
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    3.5.1      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

dfComps <- read_csv("https://intro-datascience.s3.us-east-2.amazonaws.com/companies1.csv")
```

```
## Rows: 47758 Columns: 18
## -- Column specification -----
## Delimiter: ","
## chr (16): permalink, name, homepage_url, category_list, market, funding_tota...
## dbl (2): funding_rounds, founded_year
##
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
```

## Part 2: Create a new data frame that only contains companies with a homepage URL:

- E. Use **subsetting** to create a new dataframe that contains only the companies with homepage URLs (store that dataframe in **urlComps**).

```
urlComps <- subset(dfComps, is.na(homepage_url))
```

- D. How many companies are missing a homepage URL?

```
#3323
```

## Part 3: Analyze the numeric variables in the dataframe.

- G. How many **numeric variables** does the dataframe have? You can figure that out by looking at the output of **str(urlComps)**.
- H. What is the average number of funding rounds for the companies in **urlComps**?

```
str(urlComps)
```

```
## tibble [3,323 x 18] (S3: tbl_df/tbl/data.frame)
## $ permalink      : chr [1:3323] "/organization/r-ranch-and-mine" "/organization/1-4-all" "/organiz
## $ name           : chr [1:3323] "-R- Ranch and Mine" "1-4 All" "1.618 Technology" "121 Rentals" .
## $ homepage_url    : chr [1:3323] NA NA NA NA ...
## $ category_list   : chr [1:3323] "|Entertainment|Games|" "|Entertainment|Games|Software|" "|Real E
## $ market          : chr [1:3323] "Games" "Software" "Real Estate" "Real Estate" ...
## $ funding_total_usd: chr [1:3323] "10 000" "-" "-" "-" ...
## $ status          : chr [1:3323] "operating" "operating" "operating" "operating" ...
## $ country_code     : chr [1:3323] "USA" "USA" "USA" "USA" ...
## $ state_code       : chr [1:3323] "TX" "NC" "FL" "TX" ...
## $ region          : chr [1:3323] "Dallas" "NC - Other" "Orlando" "TX - Other" ...
## $ city            : chr [1:3323] "Fort Worth" "Connellys Springs" "Orlando" "Amarillo" ...
## $ funding_rounds   : num [1:3323] 1 1 1 1 1 1 1 5 1 2 ...
## $ founded_at       : chr [1:3323] "8/7/14" NA "7/12/13" "12/4/11" ...
## $ founded_month    : chr [1:3323] "2014-07" NA "2013-12" "2011-04" ...
## $ founded_quarter  : chr [1:3323] "2014-Q3" NA "2013-Q4" "2011-Q2" ...
## $ founded_year     : num [1:3323] 2014 NA 2013 2011 2006 ...
## $ first_funding_at : chr [1:3323] "17/08/2014" "21/04/2013" "22/01/2014" "3/9/14" ...
## $ last_funding_at  : chr [1:3323] "17/08/2014" "21/04/2013" "22/01/2014" "3/9/14" ...
```

```
#it has 2 numeric variables  
mean(urlComps$funding_rounds)
```

```
## [1] 1.198917
```

```
#the mean is 1.198917
```

- I. What year was the oldest company in the dataframe founded? **Hint:** If you get a value of “NA,” most likely there are missing values in this variable which preclude R from properly calculating the min & max values. You can ignore NAs with basic math calculations. For example, instead of running `mean(urlComps$founded_year)`, something like this will work for determining the average (note that this question needs to use a different function than ‘mean’.

```
min(urlComps$founded_year,na.rm=TRUE)
```

```
## [1] 1945
```

```
#1945 is when the oldest company was founded
```

## Part 4: Use string operations to clean the data.

- K. The **permalink** variable in **urlComps** contains the name of each company but the names are currently preceded by the prefix “/organization/”. We can use `str_replace()` in tidyverse or `gsub()` to clean the values of this variable:

```
gsub("~/organization/", "", urlComps$permalink)
```

```
## [1] "r-ranch-and-mine"  
## [2] "1-4-all"  
## [3] "1-618-technology"  
## [4] "121-rentals"  
## [5] "16-mile-solutions"  
## [6] "1rp-media"  
## [7] "1st-choice-lawn-care"  
## [8] "2080-media"  
## [9] "21e6"  
## [10] "24-quan"  
## [11] "248-solidstate"  
## [12] "2catalyze"  
## [13] "2web-technologies"  
## [14] "3225-films"  
## [15] "3d-forms"  
## [16] "3d-vision-systems"  
## [17] "3guppies"  
## [18] "404-found"  
## [19] "422-group"  
## [20] "490-entertainment"  
## [21] "4front-partners"  
## [22] "4tech"  
## [23] "5-minutes"
```

```

## [24] "5-star-mobile"
## [25] "500-luchadores"
## [26] "51edu"
## [27] "556-fitness"
## [28] "5k-fans"
## [29] "777-davis"
## [30] "7mb-technologies"
## [31] "80th-street-residence-facc-fund-i"
## [32] "818-sports-entertainment"
## [33] "8218-west-third"
## [34] "911-view"
## [35] "99-fahrenheit"
## [36] "9flava"
## [37] "a-better-tomorrow-treatment-center"
## [38] "a-pooches-pleasure"
## [39] "a-vida-feita-de-desconto"
## [40] "a-network"
## [41] "a-b-productions"
## [42] "apavanashiappasilk"
## [43] "a4-data"
## [44] "ab-group"
## [45] "ab-jb-properties-and-services"
## [46] "abaxx-technology"
## [47] "abazab"
## [48] "abbey-house-media"
## [49] "abbey-pharma"
## [50] "abl-farms"
## [51] "above-all-software"
## [52] "ac-holdco"
## [53] "acacia-semiconductor"
## [54] "academic-management-services"
## [55] "academy-of-inovation"
## [56] "accendo-therapeutics"
## [57] "accept-software"
## [58] "accupost-corporation"
## [59] "ace-film-productions"
## [60] "acesobee"
## [61] "aceva-technologies"
## [62] "acopia-networks"
## [63] "acreation-reptiles-and-exotics"
## [64] "across-america-financial-services"
## [65] "across-the-universe"
## [66] "acsian"
## [67] "acticut-international"
## [68] "action-sports"
## [69] "actionality"
## [70] "active-voice-corporation"
## [71] "addashop"
## [72] "adea-cutters"
## [73] "adient-health"
## [74] "admi-holdings"
## [75] "admitly"
## [76] "adometry-2"
## [77] "advance-display-technologies"

```

```

## [78] "advance-medical"
## [79] "advanced-biomedical-technologies"
## [80] "advanced-chip-express"
## [81] "advanced-digital-design"
## [82] "advanced-materials-technology-international"
## [83] "advanced-orthopedic-technologies"
## [84] "advanced-system-designs"
## [85] "advent-therapeutics"
## [86] "adventenna"
## [87] "advisor-client-match"
## [88] "aegis-petroleum-technology"
## [89] "aeglea-biotherapeutics"
## [90] "aequus-technologies"
## [91] "aerin-medical"
## [92] "affinetti-biologics"
## [93] "affinity-air-service"
## [94] "affinity-edge"
## [95] "afg-media"
## [96] "africas-talking"
## [97] "african-grain-company"
## [98] "ageia-technologies"
## [99] "agencourt-bioscience"
## [100] "aggamin-pharmaceuticals"
## [101] "agi-biopharmaceuticals"
## [102] "agility-communications"
## [103] "agility-design-solutions"
## [104] "agillic"
## [105] "aglobal-tech"
## [106] "agrican"
## [107] "agrimaps"
## [108] "agrosavfe"
## [109] "agv-media"
## [110] "ai-merchant"
## [111] "aim"
## [112] "air-button"
## [113] "air-intelligence"
## [114] "airborne-technology"
## [115] "aircell-holdings"
## [116] "airizu"
## [117] "ais"
## [118] "aj-team-products"
## [119] "ajaline"
## [120] "akarx"
## [121] "akimbi-systems"
## [122] "akira-technologies"
## [123] "al-jazeera-agricultural"
## [124] "al-nabil-food-industries"
## [125] "alai"
## [126] "alantos-pharmaceuticals"
## [127] "alavita-pharmaceuticals-inc"
## [128] "alc-holdings"
## [129] "alexis-bittar"
## [130] "alga-energy"
## [131] "alignable"

```

```

## [132] "alignment-acquisitions"
## [133] "aligo"
## [134] "alim-innovations"
## [135] "aliopartis"
## [136] "aliva-biopharmaceuticals"
## [137] "all-about-baby"
## [138] "allotrope-partners"
## [139] "allux-medical"
## [140] "alphasmart"
## [141] "alseres-pharmaceuticals"
## [142] "alt-bioscience"
## [143] "altimmune"
## [144] "altermune-technologies"
## [145] "alti-semiconductor"
## [146] "altocom"
## [147] "alvo-international-inc"
## [148] "alvos-therapeutic"
## [149] "alyotech-canada"
## [150] "amanda-huff-dba-securecovery"
## [151] "amazing-global-technologies"
## [152] "amazing-photo-letters"
## [153] "ambria-dermatology"
## [154] "ambric"
## [155] "amd1"
## [156] "ameri-tech-3d"
## [157] "american-healthnet"
## [158] "american-museum-of-natural-history"
## [159] "american-pet-resort"
## [160] "american-retail-group"
## [161] "american-scientific-resources"
## [162] "american-scrap-metal-recyclers-l-l-c"
## [163] "american-tonerserv-corp"
## [164] "ameriprime"
## [165] "amicus-medicus-llc"
## [166] "amigos-y-amigos"
## [167] "ampere-life-sciences"
## [168] "amphivena-therapeutics"
## [169] "amphora-medical"
## [170] "ampla-pharmaceuticals"
## [171] "amrit-advanced-biotech"
## [172] "amsterdam-castle-ny"
## [173] "anabios"
## [174] "analyte-health"
## [175] "andrew-michaels-ltd"
## [176] "andro-diagnostics"
## [177] "anelletti-sicilian-street-food-restaurants"
## [178] "anesthetix-holdings"
## [179] "aneumed"
## [180] "anexon"
## [181] "angiologix"
## [182] "animal-kingdom"
## [183] "animating-touch"
## [184] "annovation-biopharma"
## [185] "ansing-technology"

```

## [186] "antenna-2"  
 ## [187] "anthology-solutions"  
 ## [188] "aortx"  
 ## [189] "aot-bedding-super-holdings"  
 ## [190] "apama-medical"  
 ## [191] "apangea-learning"  
 ## [192] "apax-group"  
 ## [193] "apax-solutions"  
 ## [194] "apgr-green"  
 ## [195] "apogee-photonics"  
 ## [196] "apollo-laser-welding-services"  
 ## [197] "appcast"  
 ## [198] "appiness-inc"  
 ## [199] "applied-nanoworks"  
 ## [200] "applied-x-rad-technology-llc"  
 ## [201] "apply-financials-limited"  
 ## [202] "approtect"  
 ## [203] "apps-zerts"  
 ## [204] "apptweak-com"  
 ## [205] "apr"  
 ## [206] "aps-llc"  
 ## [207] "apsara-therapeutics"  
 ## [208] "apstrata"  
 ## [209] "apx-group"  
 ## [210] "aqh"  
 ## [211] "aquarium-life-customs"  
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 ## [213] "arav"  
 ## [214] "arcadia-ecoenergies"  
 ## [215] "archive"  
 ## [216] "archpro-design-automation"  
 ## [217] "argus"  
 ## [218] "ariagora"  
 ## [219] "aries-cove"  
 ## [220] "arjo-dala-events-group"  
 ## [221] "arkeo"  
 ## [222] "aroogas-grill-house-sports-bar"  
 ## [223] "around-the-bend-beer-co"  
 ## [224] "arrayent-health"  
 ## [225] "arrive-technologies"  
 ## [226] "arrowhead-automated-systems"  
 ## [227] "arroyo-video-solutions"  
 ## [228] "art-circle"  
 ## [229] "art-craft-entertainment"  
 ## [230] "arta-bioscience"  
 ## [231] "arthrocad"  
 ## [232] "artimi"  
 ## [233] "artisoft"  
 ## [234] "asc-madison"  
 ## [235] "ascalon-international"  
 ## [236] "ascendant-mdx"  
 ## [237] "ascentias"  
 ## [238] "asempra-technologies"  
 ## [239] "ashlar-holdings"

```

## [240] "asker"
## [241] "asset-tracking-technologies"
## [242] "assetmetrix-corporation"
## [243] "assistera"
## [244] "assured-pharmacy"
## [245] "assurely"
## [246] "assurz"
## [247] "astech"
## [248] "astro-gaming"
## [249] "asym-iii"
## [250] "ataxion"
## [251] "atcor-holdings"
## [252] "athletes-recovery-club"
## [253] "atlantic-excavation-demolition-grading"
## [254] "atomshockwave-corp"
## [255] "atreo-medical"
## [256] "atria-brindavan-power"
## [257] "attractive-black-singles-llc"
## [258] "aubrey"
## [259] "auctionpal"
## [260] "audacious"
## [261] "audio-shack"
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## [264] "audioscribe"
## [265] "audisoft-group"
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## [267] "augmentation-industries"
## [268] "augustus-energy-partners"
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## [270] "auris-surgical-robotics"
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## [285] "axis-systems"
## [286] "axium-nanofibers"
## [287] "axs-one"
## [288] "axxia-pharmaceuticals"
## [289] "azteq-mobile"
## [290] "tokalas"
## [291] "b2brev"
## [292] "b3-bio"
## [293] "bac-on-trac"

```



## [294] "backdoor-2"  
 ## [295] "badabroad"  
 ## [296] "bagels-and-bean"  
 ## [297] "baker-oil-gas"  
 ## [298] "balandras-3"  
 ## [299] "ball-street"  
 ## [300] "band-digital"  
 ## [301] "bandwidth-publishing"  
 ## [302] "bangee"  
 ## [303] "banister-works"  
 ## [304] "banyan-2"  
 ## [305] "bar-saint"  
 ## [306] "barafon"  
 ## [307] "barak-itc"  
 ## [308] "barbird"  
 ## [309] "bardolino-grille"  
 ## [310] "baroc-pub"  
 ## [311] "baton-rouge-vascular-access"  
 ## [312] "battery-medics"  
 ## [313] "bay-area-transportation"  
 ## [314] "bayouglobal-forex-trading"  
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 ## [316] "be-here"  
 ## [317] "beachhead-exports-usa"  
 ## [318] "beacon-holding"  
 ## [319] "bead-button"  
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 ## [322] "beaming"  
 ## [323] "beat-freak-music-group-llc"  
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 ## [327] "beetle-beats"  
 ## [328] "beezik"  
 ## [329] "begel-systems"  
 ## [330] "behavioral-technology-group"  
 ## [331] "beijing-cloud-technologies"  
 ## [332] "beijing-herun-detang-media-and-advertising"  
 ## [333] "beijing-joysee-technology"  
 ## [334] "beijing-kylin-net-information-technology"  
 ## [335] "beijing-oriental-prajna-technology-development"  
 ## [336] "beijing-sanji-wuxian-internet-technology"  
 ## [337] "beijing-suplet-technology"  
 ## [338] "beijing-taishi-xinguang-technology"  
 ## [339] "benesight"  
 ## [340] "berkshire-films"  
 ## [341] "beryl-wind-transportation"  
 ## [342] "beryllium"  
 ## [343] "best-athlete-management"  
 ## [344] "best-money-decisions"  
 ## [345] "best-response-strategies"  
 ## [346] "bet-information-systems"  
 ## [347] "beta-cat-pharmaceuticals"

```

## [348] "betty-r-clawson-international"
## [349] "beyond-alpha"
## [350] "beyond-credentials"
## [351] "beyond-games"
## [352] "bharat-light-and-power-group-private-limited"
## [353] "big-box-overstocks"
## [354] "big-red-truck-driving-school"
## [355] "big-six"
## [356] "bigclix-com"
## [357] "billboard-jungle"
## [358] "billy-jacksons-fresh-fish"
## [359] "bimici"
## [360] "bin1-ate"
## [361] "bio-ivt-group"
## [362] "bioabsorbable-therapeutics"
## [363] "bioapter"
## [364] "bioatla-llc"
## [365] "bioaxone-therapeutic"
## [366] "biocro"
## [367] "biocurex"
## [368] "biodetego"
## [369] "bioexx-specialty-proteins"
## [370] "biogenerics"
## [371] "biogreen-teck"
## [372] "bioincept"
## [373] "biomeasure"
## [374] "biomimetix-pharmaceutical"
## [375] "biopharma-manufacturing-solutions"
## [376] "biopsych-health-systems"
## [377] "bioregency"
## [378] "biosig-technologies"
## [379] "biosport-athletechs"
## [380] "biostratum"
## [381] "biotectix"
## [382] "biotrace-medical"
## [383] "bitboys-oy"
## [384] "bitfone-corporation"
## [385] "biz-in-a-box-jv"
## [386] "black-box-biofuels"
## [387] "black-chair-group"
## [388] "black-coin"
## [389] "black-raven-and-stag"
## [390] "blackbird-holdings"
## [391] "bladder-health-ventures"
## [392] "blaze-dfm"
## [393] "blazer-flip-flops"
## [394] "blend-biosciences"
## [395] "blind-side-entertainment"
## [396] "blink-com"
## [397] "blipify"
## [398] "blitz-x-performance-instruments"
## [399] "blog-sparks-network"
## [400] "bloomz"
## [401] "blue-flame-data"

```

```

## [402] "blue-holdings"
## [403] "blue-interactive-group"
## [404] "blue-lava-group"
## [405] "blue-ocean-software"
## [406] "blue-palace-enterprise"
## [407] "blue-saint"
## [408] "blueheath"
## [409] "bluemate-associates"
## [410] "bluenote-networks"
## [411] "blueprint-labs"
## [412] "blufrog-path-lab-solutions"
## [413] "bmp-sunstone-corporation"
## [414] "boardganics"
## [415] "boardz-2"
## [416] "boca-research"
## [417] "boloco"
## [418] "bondanddeni"
## [419] "bonsai-ai"
## [420] "bontera"
## [421] "bonzerdarg"
## [422] "booksmart-technologies"
## [423] "boombocx-productions"
## [424] "borean-pharma"
## [425] "bostan-research-inc"
## [426] "box-garden"
## [427] "brainjuicer"
## [428] "brandbeau"
## [429] "brandfitters"
## [430] "breathez-vac-services"
## [431] "brentwood-investments"
## [432] "brickell-bay-acquisition"
## [433] "bridge-pharmaceuticals"
## [434] "bridgeport-networks"
## [435] "brightcove-k-k"
## [436] "brite-energy-solar-holdings"
## [437] "britestream-networks"
## [438] "broadcast-grade-weather-channel-branding-graphics-display-system"
## [439] "brown-and-meyer-enterprises"
## [440] "brownsburg-pc-911"
## [441] "browster"
## [442] "bucks-beverage-barn"
## [443] "buddha-software"
## [444] "bufys"
## [445] "building-our-community"
## [446] "bull-moose-energy"
## [447] "bunkspeed"
## [448] "business-combined"
## [449] "business-e-via-italy"
## [450] "business-engine"
## [451] "business-intelligence-international"
## [452] "buz"
## [453] "buzz-media-2"
## [454] "c-note"
## [455] "c2c-rei-software"

```

```

## [456] "c3-creations"
## [457] "c4robo"
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 ## [3247] "wizer"  
 ## [3248] "wokup"  
 ## [3249] "wolf-pyros-pictures"  
 ## [3250] "wordster"  
 ## [3251] "workerbee-virtual-assistants"  
 ## [3252] "working-out-works"  
 ## [3253] "workmein"  
 ## [3254] "workthink"  
 ## [3255] "world-energy"  
 ## [3256] "world-freight-company-international"  
 ## [3257] "world-wide-packets"  
 ## [3258] "world-wide-premium-packers"  
 ## [3259] "worldgate-communications"  
 ## [3260] "wowo"  
 ## [3261] "wp-rocket-holdings"  
 ## [3262] "wrnch"  
 ## [3263] "wsc-group"

```

## [3264] "wsn-systems"
## [3265] "wuaki-tv"
## [3266] "yunfeng-renewable-resources"
## [3267] "wyutex-oil-and-gas"
## [3268] "x-plus-two-solutions"
## [3269] "xcel-healthcare-inc"
## [3270] "xcell-medical"
## [3271] "xd-nutrition"
## [3272] "xelor-software"
## [3273] "xensource"
## [3274] "xifra-business"
## [3275] "xinrong"
## [3276] "xochitl-so-shee-gold-mines"
## [3277] "xoinka"
## [3278] "xoxo-kitchen"
## [3279] "xstream-systems"
## [3280] "xylan-corporation"
## [3281] "xylo-inc"
## [3282] "yadio"
## [3283] "yassets"
## [3284] "yeong-guan-energy"
## [3285] "yeoxin-vmall"
## [3286] "yeti-data"
## [3287] "yfind-technologies"
## [3288] "yi-chang-ou-sai-it"
## [3289] "yobucko"
## [3290] "yoink-games"
## [3291] "your-image-by-brooke"
## [3292] "your-practical-solutions"
## [3293] "yourpov-tv"
## [3294] "yourtime-solutions"
## [3295] "youstream-sport-highlights"
## [3296] "beijing-youxigu-information-technology-co-ltd"
## [3297] "z-good"
## [3298] "zabu-studio"
## [3299] "zaina-pharma"
## [3300] "zangzing"
## [3301] "zapnip"
## [3302] "zayante"
## [3303] "zealcore-embedded-solutions"
## [3304] "zeb"
## [3305] "zebit"
## [3306] "zebra-mobile"
## [3307] "zeis-excelsa"
## [3308] "zend-enterprise-php-business-plan"
## [3309] "zenph-sound-innovations"
## [3310] "zenter"
## [3311] "zetarx-biosciences"
## [3312] "zeuscontrols"
## [3313] "zhongyou-group"
## [3314] "zhou-heiya"
## [3315] "zi-uniform-supply"
## [3316] "ziarco"
## [3317] "zikbit"

```



```
## [3318] "zingdom-communications"
## [3319] "zippy-com-au-pty-ltd"
## [3320] "zperfectgift"
## [3321] "zuffle"
## [3322] "zuse"
## [3323] "zwamy"
```

L. Can you identify another variable which should be numeric but is currently coded as character? Use the `as.numeric()` function to add a new variable to **urlComps** which contains the values from the char variable as numbers. Do you notice anything about the number of NA values in this new column compared to the original “char” one?

```
str(urlComps)
```

```
## tibble [3,323 x 18] (S3: tbl_df/tbl/data.frame)
## $ permalink      : chr [1:3323] "/organization/r-ranch-and-mine" "/organization/1-4-all" "/organiz
## $ name           : chr [1:3323] "-R- Ranch and Mine" "1-4 All" "1.618 Technology" "121 Rentals" .
## $ homepage_url   : chr [1:3323] NA NA NA NA ...
## $ category_list  : chr [1:3323] "|Entertainment|Games|" "|Entertainment|Games|Software|" "|Real E
## $ market         : chr [1:3323] "Games" "Software" "Real Estate" "Real Estate" ...
## $ funding_total_usd: chr [1:3323] "10 000" "-" "-" "-" ...
## $ status         : chr [1:3323] "operating" "operating" "operating" "operating" ...
## $ country_code   : chr [1:3323] "USA" "USA" "USA" "USA" ...
## $ state_code     : chr [1:3323] "TX" "NC" "FL" "TX" ...
## $ region         : chr [1:3323] "Dallas" "NC - Other" "Orlando" "TX - Other" ...
## $ city           : chr [1:3323] "Fort Worth" "Connellys Springs" "Orlando" "Amarillo" ...
## $ funding_rounds  : num [1:3323] 1 1 1 1 1 1 1 5 1 2 ...
## $ founded_at     : chr [1:3323] "8/7/14" NA "7/12/13" "12/4/11" ...
## $ founded_month   : chr [1:3323] "2014-07" NA "2013-12" "2011-04" ...
## $ founded_quarter : chr [1:3323] "2014-Q3" NA "2013-Q4" "2011-Q2" ...
## $ founded_year    : num [1:3323] 2014 NA 2013 2011 2006 ...
## $ first_funding_at : chr [1:3323] "17/08/2014" "21/04/2013" "22/01/2014" "3/9/14" ...
## $ last_funding_at : chr [1:3323] "17/08/2014" "21/04/2013" "22/01/2014" "3/9/14" ...
```

```
#funding_total_usd could also be numeric
as.numeric(urlComps$funding_total_usd)
```

```
## Warning: NAs introduced by coercion
```

```
##      [1] NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA
##     [19] NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA
##     [37] NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA
##     [55] NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA
##     [73] NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA
##     [91] NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA
##    [109] NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA
##    [127] NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA
##    [145] NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA
##    [163] NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA
##    [181] NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA
##    [199] NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA
##    [217] NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA
```

[illegible]

[illegible]

[illegible]

```
## [3151] NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA
## [3169] NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA
## [3187] NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA
## [3205] NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA
## [3223] NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA
## [3241] NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA
## [3259] NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA
## [3277] NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA
## [3295] NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA
## [3313] NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA
```

*#almost all of the values become NA*

M. To ensure the char values are converted correctly, we first need to remove the spaces between the digits in the variable. Check if this works, and explain what it is doing:

#it is similar to what we did earlier except it is getting rid of white space within the funding variable so it can be read as a number

```
library(stringi)
urlComps$funding_new <- stri_replace_all_charclass(urlComps$funding_total_usd, "\\p{WHITE_SPACE}", "")
```

Error in stri\_replace\_all\_charclass(urlComps\$funding\_total\_usd, "\\p{WHITE\_SPACE}", : object 'urlComps' not found  
Traceback:

```
1. stri_replace_all_charclass(urlComps$funding_total_usd, "\\p{WHITE_SPACE}",
.   "")
```

N. You are now ready to convert `urlComps$funding_new` to numeric using `as.numeric()`.

Calculate the average funding amount for `urlComps`. If you get “NA,” try using the `na.rm=TRUE` argument from problem I.

```
as.numeric(urlComps$funding_new)
```

## Warning: NAs introduced by coercion

```
## [1] 10000 NA NA NA 199957 NA NA
## [8] 41000000 5050000 NA 500000 6785876 NA NA
## [15] NA 150000 20000000 6246800 1000000 450000 22000
## [22] 7000000 3500000 180000 2013000 NA NA 8000000
## [29] 2875000 460775 5100000 27000000 400000 15000 1380700
## [36] 1432051 NA NA 2500 NA NA 96932
## [43] NA 4845819 NA 4540000 4400000 600000 3355282
## [50] 150000 2100000 252794435 368000 NA 50000 4000000
## [57] 25305000 NA NA 41250 5280000 20000000 3000
## [64] 20292075 12500 495440 NA 265000 1000000 NA
## [71] 3000000 NA 458912 367645000 NA 450000 11450000
## [78] 26000000 205250 1900000 NA 210000 250000 1325000
## [85] 50000 4560000 NA 4300000 24000000 14727601 774998
## [92] 500000 NA 1574996 6577614 20000 1000 27500000
```

##	[99]	NA	3722355	4710000	15000000	7000000	NA	1400000
##	[106]	500000	40000	6637000	916029	40000	NA	41250
##	[113]	NA	2500000	65108581	2000000	50000	NA	1050000
##	[120]	26100000	8000000	2000000	35000000	NA	573000	NA
##	[127]	600000	32607085	NA	3913800	3540578	NA	7920000
##	[134]	NA	NA	12870407	2410000	5000000	6400000	NA
##	[141]	5900000	3219763	46000	7000000	4310000	NA	NA
##	[148]	2000000	4250000	NA	3960000	2000	706924	10400000
##	[155]	1327250	NA	1000000	7500000	3597688	1081000	1650000
##	[162]	NA	1965000	NA	NA	NA	1367143	14000000
##	[169]	600000	7265271	3242399	NA	1318297	38550000	NA
##	[176]	1307000	NA	NA	1110000	7500000	1800000	NA
##	[183]	25000	10375000	NA	50000	10000000	5800000	NA
##	[190]	4300000	4499250	600000	170000	550200	9700000	140000
##	[197]	1500000	200000	750003	NA	1000000	750000	NA
##	[204]	NA	8776639	NA	1000000	1200000	45259000	850000
##	[211]	NA	NA	11796300	200000	NA	4500000	167000
##	[218]	15000	NA	NA	300000	NA	255000	1083000
##	[225]	4000000	NA	12000000	40000	2350000	NA	2336224
##	[232]	31500000	NA	1325000	905300	13500000	NA	20000000
##	[239]	1164000	50000	100000	3000000	98000	2740000	NA
##	[246]	5000000	NA	NA	NA	17000000	50000000	NA
##	[253]	NA	22900000	410958	8600000	NA	3877920	2400000
##	[260]	163406	NA	NA	4000000	1499800	5530000	NA
##	[267]	3573365	96700000	NA	34502390	978626	2000006	100000
##	[274]	NA	50000	12200000	933798	4860000	NA	162000
##	[281]	6430000	100000000	500000	3694598	NA	7505797	1350000
##	[288]	300000	4050000	3090000	NA	5701120	NA	200000
##	[295]	20000	1000	39000000	NA	326647	7294000	853078
##	[302]	2000	NA	144000	NA	3100000	67000000	40000
##	[309]	NA	12000	10864240	NA	NA	125000	14000000
##	[316]	5000000	NA	674598700	NA	40000	30860000	NA
##	[323]	NA	NA	20000	NA	NA	7216281	45000000
##	[330]	115000	NA	8830000	NA	15000000	NA	1000000
##	[337]	2635431	30000000	NA	NA	NA	11500142	2000000
##	[344]	1200000	2270000	3100000	775000	NA	NA	75000
##	[351]	800000	15350000	552500	NA	150023	250000	195000
##	[358]	1000	NA	175000	45000000	359705	2033700	3110000
##	[365]	12150000	1182192	2150000	50000	9721294	4660625	NA
##	[372]	3185000	45000000	2000000	400700	375000	100000	1559785
##	[379]	100000	599999	3000000	3491067	4788800	NA	NA
##	[386]	NA	576000	75318	5000	100	200000	10000000
##	[393]	3510000	2800000	NA	500000	12931217	NA	100000
##	[400]	576000	6000000	4118093	55000000	2000000	NA	NA
##	[407]	NA	15492311	1000	23400000	1000000	1600000	6350000
##	[414]	40000	NA	NA	NA	NA	NA	40000
##	[421]	150000	8000	NA	5220000	NA	34623	NA
##	[428]	NA	15000	NA	26057950	52411646	2188388	13000000
##	[435]	4900000	14249550	10000000	12500	8100	NA	5800000
##	[442]	NA	2455000	200000	200000	60000000	NA	NA
##	[449]	1000000	4000000	910337	NA	72000000	NA	NA
##	[456]	5000	15000	750000	5000000	30000	NA	NA
##	[463]	3000000	NA	4900000	NA	19800000	NA	10231974
##	[470]	8000000	263254	NA	339000	NA	3000000	NA

##	[477]	2749999	11500000	19950000	4220000	3162000	NA	50000
##	[484]	250000	NA	10500249	NA	300000	800000	17592449
##	[491]	30000	6000000	500000	64000	6150000	NA	10000
##	[498]	6350000	28474000	NA	4000000	12500	NA	NA
##	[505]	12500	NA	NA	13000000	1000000	NA	2327600
##	[512]	4900000	66220000	NA	13660000	50000	NA	900000
##	[519]	560000	NA	587140	3000000	100000000	1550000	16500000
##	[526]	2591800	20000000	49000000	35000	2732960	3000	15187875
##	[533]	NA	30500000	NA	16608000	NA	NA	600000
##	[540]	NA	201000	109000	40000	NA	470000	1218942
##	[547]	40000	3599809	43000000	11000000	27500000	NA	6000000
##	[554]	NA	1000	19700000	NA	NA	1301000	NA
##	[561]	221480	NA	10909550	23100000	NA	4345087	NA
##	[568]	12850000	NA	50000	19000000	NA	10612152	NA
##	[575]	342500	5000000	NA	NA	4815000	2000000	NA
##	[582]	500000	150000	190000	100000	251100	12500	NA
##	[589]	209050	NA	1600000	1800000	1300000	35000	3500
##	[596]	300	NA	520000	NA	NA	2000000	6500000
##	[603]	33000000	120000	4500000	7500	NA	NA	NA
##	[610]	16000000	10000000	NA	2100000	2970000	1000000	NA
##	[617]	5110000	NA	250000	10500	33463229	50000	110000
##	[624]	5000	815000	NA	12530000	NA	323000000	195607
##	[631]	5710000	NA	1060000	NA	28000	NA	NA
##	[638]	NA	2271475	2805480	3000000	NA	949996	11500000
##	[645]	40000	8000000	1200000	11406000	50000	100242	985019
##	[652]	1185000	10000003	2000	2200000	NA	NA	15000
##	[659]	NA	NA	1920000	1750	1841000	6541000	NA
##	[666]	40000	75000	50000	2590000	30000000	11500000	1012700
##	[673]	12500	20000000	125000	NA	1800000	300000	NA
##	[680]	25000	10800000	NA	NA	NA	12500	2194059
##	[687]	150000	262100	NA	600000	200000	NA	20000
##	[694]	50000	NA	4000000	NA	300000	NA	169000
##	[701]	NA	480000	NA	1000000	828572	9000000	NA
##	[708]	500000	2500	NA	NA	20000	NA	40000
##	[715]	NA	2200000	4920000	2000000	500000	38999	12000
##	[722]	NA	50000	50000000	115000	15000000	6000000	73000000
##	[729]	17368631	1000000	22099	50000	1584593	NA	6000000
##	[736]	7000000	325000	5596159	15169529	250000	35000	10000000
##	[743]	324942	NA	25000	NA	50000	375000	215000000
##	[750]	151500204	1750087	NA	927000	1780000	200000	NA
##	[757]	2850000	830000	386406	370200	NA	5000000	NA
##	[764]	3100000	1500000	4500000	1350000	225000	26000000	4200000
##	[771]	1000000	NA	NA	340000	1000000	NA	NA
##	[778]	NA	NA	1209994	NA	2700000	2525000	8839821
##	[785]	47413	126000	NA	11500000	NA	4000000	NA
##	[792]	NA	NA	1100000	NA	24000	NA	590000
##	[799]	NA	300000	NA	NA	25000	950000	26294000
##	[806]	NA	2000000	1950000	NA	1700000	1200000	50000
##	[813]	20600000	NA	817953	3000000	NA	50000	NA
##	[820]	42935019	NA	NA	501000	5000000	NA	107676692
##	[827]	40000	4345800	1500000	NA	NA	2712525	20000
##	[834]	20000	NA	100000	1000000	1100000	50000	NA
##	[841]	6061005	NA	1040000	225000	721566	200000	2500000
##	[848]	1658525	20500000	7032007	180000	NA	NA	NA

##	[855]	425130	NA	35000	40000	1000000	30000000	NA
##	[862]	24000000	500	15000000	13500000	NA	2702490	NA
##	[869]	234483	2308463	15800000	30676	NA	NA	NA
##	[876]	2900000	5440000	NA	3000000	NA	650000	300000
##	[883]	1491000	NA	NA	1350000	1361300	1400000	3826650
##	[890]	1500000	8986925	150000	2985250	3470000	50000000	NA
##	[897]	85000	NA	4751000	NA	75000000	13000000	NA
##	[904]	15000000	NA	NA	26173	162954	NA	208354
##	[911]	18000000	15500000	587000	2000000	2250000	109705	75000
##	[918]	4500000	2003257	NA	NA	4400000	40000	NA
##	[925]	6500000	50000	NA	8593570	14000000	465326	6000000
##	[932]	11819107	1526426	NA	833000	NA	700000	10000000
##	[939]	NA	NA	20000	3000000	50000	NA	6000000
##	[946]	1200000	16560000	221250	NA	118000	37400612	3125000
##	[953]	NA	NA	3620185	NA	NA	NA	6280600
##	[960]	12550006	18400000	12500	8000000	NA	466306	123
##	[967]	NA	NA	4000000	3000000	4000000	10000	4600000
##	[974]	NA	NA	NA	25000	35687	15000000	317279695
##	[981]	NA	975134	NA	30000000	1700000	NA	NA
##	[988]	1400000	NA	7500000	1000000	NA	NA	NA
##	[995]	NA	NA	500000	609539	NA	NA	NA
##	[1002]	23960000	NA	NA	40000	1230000	NA	NA
##	[1009]	NA	40000	NA	10000	31171234	1900000	NA
##	[1016]	1550000	3000000	15000000	NA	400000	1500000	9031006
##	[1023]	10523411	150000	2000000	150000	20500000	1819458	2200000
##	[1030]	NA	NA	NA	5720880	1400000	50000	3000000
##	[1037]	11000000	4210000	NA	NA	75000	NA	20000000
##	[1044]	NA	NA	NA	NA	2950573	30214672	211691
##	[1051]	NA	922000	140000	6200000	4796229	35000	135000
##	[1058]	NA	40000	NA	1082192	1500000	40000	80000000
##	[1065]	7000000	12350000	1010000	6906423	NA	NA	4000000
##	[1072]	NA	6000000	NA	50000	NA	81837	NA
##	[1079]	4167323	1220786	NA	2393500	600000	2250000	NA
##	[1086]	NA	NA	NA	NA	2000000	NA	6200000
##	[1093]	NA	3150000	NA	15615915	5730000	3262631	500000
##	[1100]	700000	NA	440000	5000000	1500000	NA	NA
##	[1107]	500000	860810	NA	1379998	5000000	250000	2742739
##	[1114]	40000000	3070000	100	160000000	NA	NA	NA
##	[1121]	730000	34419	4120000	NA	11028296	2250000	250000
##	[1128]	NA	12500	41250	200000000	7768156	NA	300000
##	[1135]	50000	NA	270000	33000000	16999999	451452	700000
##	[1142]	NA	NA	10000000	3660942	499800	393000	16200000
##	[1149]	NA	2050000	60000	NA	500000	NA	25000
##	[1156]	50000	855000	2000000	NA	1516000	69000	150000
##	[1163]	NA	56000000	NA	NA	NA	NA	1571940
##	[1170]	1700000	NA	8000	20800000	9084161	NA	3255976
##	[1177]	29055	187668	50000	NA	NA	NA	NA
##	[1184]	NA	40000	NA	NA	NA	NA	NA
##	[1191]	20000	NA	NA	NA	NA	NA	NA
##	[1198]	NA	NA	NA	2880000	64000	15000	NA
##	[1205]	2160000	NA	15000	3638297	4000000	15000000	NA
##	[1212]	250000	23184	2700000	NA	40000	302000	6000000
##	[1219]	NA	55000	5000000	100	1999999	4888647	NA
##	[1226]	NA	NA	650000	NA	37000000	1500000	62000



## [1233]	1200000	NA	NA	NA	1000000	150000	NA
## [1240]	15000	NA	28550000	15000	660000	925000	500000
## [1247]	150000	NA	NA	65000	2025000	925000	201250
## [1254]	183900	NA	320000	NA	12500	1310000	NA
## [1261]	1650000	7333335	1290000	2500000	1000000	2000000	160000
## [1268]	NA	NA	100000	1601006	NA	5280000	11000000
## [1275]	29300000	520000	5500000	NA	100000	4556909	NA
## [1282]	1000000	905421	NA	3400000	750000	5000000	20000
## [1289]	NA	2844683	12500	1000000	NA	NA	10000
## [1296]	25000000	NA	919997	608747	12500	NA	NA
## [1303]	187500	NA	6015700	NA	NA	NA	NA
## [1310]	NA	NA	750000	198000	1425293	1423395	300000
## [1317]	NA	NA	NA	10600000	350000	75000	2000
## [1324]	NA	7500	40000	NA	NA	1424131	336000
## [1331]	NA	3000000	NA	NA	5200	1770000	1110000
## [1338]	45040000	7000000	6000000	12500	5225000	5508855	620750
## [1345]	470000	35000	30000	NA	8000000	3343000	80390
## [1352]	12500	75000	3000000	7409850	25000000	28000000	1220000
## [1359]	21700000	275006	NA	21500000	NA	NA	265924
## [1366]	6000000	NA	7600000	5450000	4633057	25000	NA
## [1373]	20000	NA	NA	5000000	2000000	10000000	27444900
## [1380]	4710000	5700000	3000000	165000	NA	NA	6000000
## [1387]	4000000	62500	8500000	2500000	9149004	400000	NA
## [1394]	NA	1187500	NA	1771014	1500000	5000000	2000000
## [1401]	NA	3200000	23000000	1061000	NA	10994000	1035000
## [1408]	NA	70000249	1538600	NA	NA	1000000	670020
## [1415]	500000	1100000	NA	NA	20063363	800000	NA
## [1422]	223100	119999911	6000000	NA	NA	16000000	1500000
## [1429]	NA	NA	2000280	NA	100000	4372930	5302500
## [1436]	NA	708000	NA	2000000	NA	13510	12000000
## [1443]	NA	NA	NA	NA	1000	NA	5380000
## [1450]	1075000	NA	9000000	15000	NA	NA	500000
## [1457]	4200000	52000	13098401	130000	249935	20000	NA
## [1464]	15400000	2460000	75000	NA	12700000	NA	11202650
## [1471]	NA	163800355	5000000	NA	NA	354125	2800000
## [1478]	1880000	NA	4373439	12500	4672323	2581800	NA
## [1485]	2000000	2500000	NA	3400000	NA	NA	1281756
## [1492]	1125007	12000000	NA	20000000	11300000	5000000	4500000
## [1499]	NA	2000000	NA	52000	NA	NA	4898097
## [1506]	NA	82000000	15000000	162364	NA	255002	NA
## [1513]	12500	199999	NA	3200000	575001	NA	NA
## [1520]	125000	NA	16000000	5000	NA	NA	NA
## [1527]	3449997	7500000	NA	500000	5024796	30332199	9000
## [1534]	300000	8500000	1495092	300000	5000000	4500000	780000
## [1541]	15000626	10900000	NA	NA	58470000	NA	NA
## [1548]	4750000	20040	NA	15000	1000000	NA	145000
## [1555]	NA	2000000	NA	NA	1346000	770000	2500000
## [1562]	NA	19311	NA	40000	4480000	7476000	550000
## [1569]	15000	10000000	NA	1500	15000	NA	4150000
## [1576]	40000	3600000	NA	227287	250000	2000000	NA
## [1583]	NA	3000000	319000000	711000	NA	1000000	NA
## [1590]	8000000	7446285	5000000	NA	NA	NA	NA
## [1597]	837800	155000	29000000	45588234	50000	NA	1850000
## [1604]	NA	NA	NA	4000000	40000	NA	40000

## [1611]	1010000	1800000	NA	NA	NA	12500	NA
## [1618]	NA	NA	7180000	NA	41000000	40000	45000100
## [1625]	560000	200000	2000000	NA	NA	300000	NA
## [1632]	4040828	1250000	5206950	NA	NA	50000	30000000
## [1639]	NA	NA	1000	789717	22000000	14097288	23000000
## [1646]	NA	NA	331937	NA	470400	NA	NA
## [1653]	1500000	NA	5000000	NA	40000	15000000	NA
## [1660]	NA	400000	NA	310000	150000	5000000	225000
## [1667]	46400000	NA	8928808	10000000	4100000	250000	2000000
## [1674]	5500000	8000000	NA	9000000	4438311	6000000	NA
## [1681]	NA	16500	43775000	21000000	NA	NA	NA
## [1688]	3330000	100	NA	250000	1490000	NA	NA
## [1695]	NA	618060	7800000	NA	3500000	1020000	NA
## [1702]	25000	NA	7000000	3000000	NA	200000	500000
## [1709]	NA	300000	13000000	6190000	NA	32500000	2000000
## [1716]	NA	4500000	NA	NA	NA	6000000	NA
## [1723]	2700000	254000	5000000	37515000	NA	NA	5000
## [1730]	1000	NA	NA	5000	NA	NA	330000
## [1737]	1689000	NA	NA	15000000	1000000	1600000	701696
## [1744]	700000	39949628	1250000	5000000	625000	2500000	8000000
## [1751]	2486458	750000	863205	NA	NA	NA	NA
## [1758]	1210000	NA	NA	NA	200000	6000	500000
## [1765]	15000	NA	NA	5150000	10000000	500000	700000
## [1772]	227287	200000	11500000	21850000	NA	7000000	4800147
## [1779]	800000	1024044	NA	40000	30000	3000000	NA
## [1786]	NA	11021503	2060000	NA	NA	14180000	4601838
## [1793]	250000	100000	2000	14932000	7500	1500000	NA
## [1800]	400000	NA	1200000	NA	1485000	5222321	4250000
## [1807]	NA	NA	3553574	NA	100000	5500000	13120000
## [1814]	NA	5450000	4800000	18000000	NA	6280000	13500000
## [1821]	10000	12100000	10000000	8300000	1310000	2000	NA
## [1828]	2000000	NA	17000000	26300000	NA	NA	NA
## [1835]	NA	50000	5000000	25000	16000000	20000000	NA
## [1842]	1500000	76000000	18380250	13234657	NA	7200000	500000
## [1849]	8750000	340000	NA	12500	NA	NA	2000000
## [1856]	NA	1797000	10000000	NA	NA	NA	NA
## [1863]	NA	15000	NA	NA	NA	NA	6000000
## [1870]	28800000	1890000	NA	4850000	3049998	NA	2622500
## [1877]	NA	4600000	3453953	1300062	1370676	NA	1500000
## [1884]	4000000	758206	NA	3000000	NA	420000	12643989
## [1891]	5000	NA	20829400	1000000	1025000	30920000	NA
## [1898]	NA	35231108	11318726	NA	NA	36000000	250000
## [1905]	NA	3298998	NA	5500000	NA	NA	4225311
## [1912]	12000000	18400000	14135454	NA	10000	NA	18000000
## [1919]	1154995	NA	NA	20950000	500000	3000000	12000000
## [1926]	8630000	6000000	1783990	2783950	8960000	16500000	13100000
## [1933]	400420	3683291	4750000	2085094	NA	10000	NA
## [1940]	NA	5940000	1100000	3500000	5200000	16510000	75000000
## [1947]	2761139	14900000	6750000	4000	80000	NA	135000
## [1954]	500000	35000000	7542266	350000	NA	NA	25000
## [1961]	NA	18183017	300000	NA	4205538	18000000	9679942
## [1968]	960000	310000	600000	1080000	NA	NA	NA
## [1975]	4000000	NA	1095000	1000999	21700000	20000000	12386190
## [1982]	94600000	7400000	2000000	500000	3000000	10000000	100000

##	[1989]	65000000	NA	12500	83500	40000	225000	600000
##	[1996]	7983353	800000	NA	4280000	NA	NA	NA
##	[2003]	7144321	NA	14999972	14394888	10585	NA	4999986
##	[2010]	NA	7235000	20000	24000000	NA	NA	676708
##	[2017]	12660000	NA	53492000	5000000	10000000	15000	550000
##	[2024]	1500000	NA	2000000	500000	1123209	6983583	3250000
##	[2031]	599705	12500	NA	25000	18000000	325000	6000000
##	[2038]	211459196	4000000	24653803	20000	NA	60000000	3616966
##	[2045]	55000	12000000	477972	7500000	NA	52500	50000
##	[2052]	NA	20000000	40000000	NA	NA	137016455	NA
##	[2059]	NA	3000	8400000	NA	302500	1193787	936000
##	[2066]	109000	5000000	NA	NA	NA	13555000	20000
##	[2073]	2030090	NA	NA	325000	NA	NA	8454877
##	[2080]	800000	1221008	10000000	1596003	2630000	NA	86000000
##	[2087]	NA	620000	NA	37500	1302789	2500000	1800000
##	[2094]	15000000	NA	1500000	NA	NA	978113	NA
##	[2101]	130300	5416970	6206000	NA	NA	NA	6450000
##	[2108]	5094613	138745	NA	40000	69042	13200000	3500000
##	[2115]	12350000	8550000	15788674	NA	NA	NA	NA
##	[2122]	5400000	22259240	40000	250000	1500000	NA	NA
##	[2129]	5000	200000	5000000	18000000	NA	100000	NA
##	[2136]	1500000	NA	NA	50000	6000000	8000000	175000
##	[2143]	10000000	19500000	74000000	1000000	12000000	NA	3275000
##	[2150]	NA	850000	NA	2500000	6856582	NA	NA
##	[2157]	6209989	11307429	6600000	350000	NA	1050000	8260000
##	[2164]	NA	100000	2500000	NA	250000	39500000	NA
##	[2171]	NA	NA	300000	1150000	8015002	32111759	30500000
##	[2178]	1200000	2099700	2000000	40000	8700000	2894276	NA
##	[2185]	50000	17500000	NA	30000	NA	38598	12500
##	[2192]	NA	672263	NA	1125000	1500000	41250	6916666
##	[2199]	31779	12265	930000	200000	94000	3000000	75000
##	[2206]	27000001	NA	175000	21000000	10000000	7500000	NA
##	[2213]	NA	39500	1500000	3400000	31400000	250000	8000000
##	[2220]	221792	NA	157048	NA	NA	2302775	75000
##	[2227]	NA	6776999	1220000	NA	33500000	500000	650000
##	[2234]	224999	23017556	10780	5175050	19300000	4500000	3600000
##	[2241]	7000000	NA	250000	NA	100000	NA	2400000
##	[2248]	500000	3500000	NA	NA	7750000	NA	480000
##	[2255]	NA	19000	6500000	150000	1480000	450000	12500
##	[2262]	NA	100000	NA	12500	5600000	45869000	12305502
##	[2269]	3684991	1190000	NA	350001	NA	NA	2300000
##	[2276]	NA	452335	8002500	NA	4029011	NA	45000
##	[2283]	1641925	500000	83700000	NA	639000	9800000	40000
##	[2290]	100000	129000	NA	1030000	235000	15000000	12510000
##	[2297]	NA	NA	100000	NA	188321	7160000	NA
##	[2304]	25000000	NA	17750000	136655	1000000	11500	406039700
##	[2311]	1000000	NA	NA	100000	5200000	NA	NA
##	[2318]	51500000	NA	10000000	NA	7000000	13071895	2500000
##	[2325]	4500000	NA	26000000	11384091	476680	9000000	1850000
##	[2332]	1400000	600000	80000	NA	25000	48300000	415000000
##	[2339]	NA	NA	10000000	NA	15000000	1925548	NA
##	[2346]	910000	2580000	8550000	NA	13000000	NA	10154182
##	[2353]	NA	250000	20000	NA	100000	NA	NA
##	[2360]	763641	185295	242000	80000	127120835	22740	15000000

##	[2367]	22317929	NA	NA	425000	2300000	1500000	NA
##	[2374]	NA	25000	NA	1000000	750000000	1000000	1857042
##	[2381]	NA	NA	40000000	500000	NA	118000	NA
##	[2388]	13960000	298315	NA	1210000	NA	11305	750000
##	[2395]	NA	24778500	24900000	25000000	NA	1000000	230000
##	[2402]	25000000	NA	500000	500000	500000	6303109	15378786
##	[2409]	500	26434	4700000	NA	3999992	2500003	8200000
##	[2416]	NA	595672	100000	NA	23000000	NA	9100000
##	[2423]	NA	10000	NA	1749998	NA	256000	55000
##	[2430]	NA	41250	1100000	NA	50000	31000000	NA
##	[2437]	6000000	12000000	NA	NA	5000	350000	22546303
##	[2444]	NA	300000	NA	300000	NA	2334833	14900000
##	[2451]	1775000	NA	1114081	NA	NA	NA	5000000
##	[2458]	NA	NA	700000	3000000	571750	580000	27396000
##	[2465]	8157678	NA	600000	11200000	NA	6500000	NA
##	[2472]	2000	NA	NA	NA	75000	6311156	748255
##	[2479]	61650000	NA	4000000	3500000	333000	NA	NA
##	[2486]	2500	NA	187000	13300000	1020000	NA	500000
##	[2493]	NA	3700000	32000000	856000	NA	5437500	NA
##	[2500]	2000000	NA	8500000	20467015	NA	25593421	NA
##	[2507]	150000	NA	12500	9250000	637500	NA	3500000
##	[2514]	6261000	20000	NA	NA	NA	900000	12999000
##	[2521]	NA	12500	NA	NA	NA	1000000	10400000
##	[2528]	28000	17000000	NA	575000	2759989	2427234	NA
##	[2535]	400000	6000000	NA	6000000	NA	2355236	132000
##	[2542]	350000000	30000000	NA	1000	251000000	NA	1200000
##	[2549]	300000	17600	25000000	956263	5810000	NA	164744
##	[2556]	NA	11717309	NA	15000	1551791	14650000	2382212
##	[2563]	190466	NA	NA	15000000	NA	200000	1400000
##	[2570]	NA	5824998	15000	NA	16236400	1502245	16295491
##	[2577]	10220000	NA	19000000	21600000	524000	NA	370561
##	[2584]	10700000	210000	18500000	2000750	10000000	500000	16000000
##	[2591]	13000000	NA	7000000	NA	300	850000	7100000
##	[2598]	NA	34000000	2100000	15962500	NA	NA	NA
##	[2605]	NA	5934145	NA	1040000	15000000	1909999	29100000
##	[2612]	4000000	NA	29184010	7500	10000000	600000	15000000
##	[2619]	NA	2204171	NA	3240000	NA	12258800	100000
##	[2626]	1800000	NA	NA	NA	150000	NA	50000
##	[2633]	NA	201956	12500	1518160	50000	15000000	250000
##	[2640]	10000000	NA	620000	111274895	3372371	3550000	NA
##	[2647]	400000	45000	25000	NA	6250000	25000	5500
##	[2654]	15000	5330000	450000	5000000	NA	250000	15000000
##	[2661]	NA	NA	NA	50000	NA	600000	172500000
##	[2668]	3450000	36000000	NA	4920000	NA	NA	580000
##	[2675]	750000	NA	829916	25000	250000	525000	NA
##	[2682]	NA	NA	NA	NA	51250	NA	2067034
##	[2689]	15000	575000	NA	NA	NA	NA	23500000
##	[2696]	NA	25000	40000	500000	2314910	3200000	NA
##	[2703]	3207946	13300000	623649	90249	NA	650000	NA
##	[2710]	535714	NA	3000000	15826	1000000	9000000	500000
##	[2717]	NA	NA	466969	70000	20395	22000	7500000
##	[2724]	NA	NA	10000000	3750000	3000000	75000	50000
##	[2731]	85627000	1020000	NA	4668000	405245	NA	1900000
##	[2738]	NA	15000	800000	8000000	589700	15500000	2700000

##	[2745]	NA	700000	NA	250000	410076	1000000	24500000
##	[2752]	6600000	650000	NA	100000	1150000	NA	40000
##	[2759]	20000	NA	30680000	4000000	NA	27033367	NA
##	[2766]	NA	16000000	NA	NA	5145960	NA	40000
##	[2773]	2771812	NA	1100000	NA	NA	25000	NA
##	[2780]	NA	3000000	35715237	2332925	NA	NA	NA
##	[2787]	200000	NA	4000001	NA	9329636	25000	10500000
##	[2794]	5999956	NA	750000	NA	50000	1000000	NA
##	[2801]	NA	158638	653999	NA	NA	NA	NA
##	[2808]	NA	4500000	50000	1045278	1375687	4300000	20000000
##	[2815]	4500000	26000000	6000000	3951000	40000	1085000	34400000
##	[2822]	10814567	1400000	25000	2500000	100000	3800000	16000000
##	[2829]	19300000	NA	NA	4000	7790000	273453	3569750
##	[2836]	4500000	40000	NA	12500000	NA	14000000	5100000
##	[2843]	300000	NA	4035050	12500	195000	NA	6000000
##	[2850]	NA	145000	3000000	404738	NA	NA	180000
##	[2857]	600000	1655405	28176	14500000	NA	60000000	365000
##	[2864]	103300000	300000	10000000	25000	14000000	500000	15000
##	[2871]	60000000	17500000	8000000	3230000	NA	NA	NA
##	[2878]	NA	NA	14350	NA	NA	NA	NA
##	[2885]	15152514	NA	NA	NA	NA	20000	NA
##	[2892]	50000	NA	NA	NA	500000	500100	NA
##	[2899]	500000	NA	NA	NA	NA	NA	NA
##	[2906]	30000	NA	1525000	500000	3000000	900000	1344000
##	[2913]	10060000	7405730	NA	36200000	NA	45700000	6555000
##	[2920]	NA	865000	20000000	NA	4000000	1470000	7500
##	[2927]	750000	NA	162364	7500000	45000	3000000	1000000
##	[2934]	100000	NA	20500000	NA	22790000	250000	13000000
##	[2941]	2000000	750000	1397500	2025200	3597498	NA	200000
##	[2948]	3500000	12500	NA	900001	5400000	4665000	4999672
##	[2955]	15000	NA	50000	NA	565000	NA	1000000
##	[2962]	2600000	NA	9690000	NA	7500	11042572	1635240
##	[2969]	1280000	NA	4499350	3013000	3000	20000	8500000
##	[2976]	590000	NA	286873	45321	1701960	75000	230000
##	[2983]	NA	3750000	10510000	10000000	40000000	30000	150000
##	[2990]	1600000	13000000	6000000	50000	1800000	NA	NA
##	[2997]	50230	NA	30000	14400000	33000000	10000000	NA
##	[3004]	10000	NA	13077866	1144458	1080000	49000000	108000000
##	[3011]	3069949	261260	4000000	500000	15100000	500000	170000
##	[3018]	11750000	NA	3000000	750000	1000000	500000	NA
##	[3025]	21850000	25000	6514212	5100000	3499999	36576043	NA
##	[3032]	449300000	19264909	200000	25000	32094	40500000	NA
##	[3039]	93600	NA	500000	5000000	5000000	1000000	NA
##	[3046]	800000	671830	2688350	NA	500000	1000000	NA
##	[3053]	213000	NA	358804	NA	6975715	11500000	NA
##	[3060]	16000000	100000	4500000	200000	NA	NA	NA
##	[3067]	NA	40000	NA	2055000	NA	NA	NA
##	[3074]	NA	400500	NA	6110000	550000	50000	5559000
##	[3081]	2005844	2000000	3530000	800000	NA	17750025	8500000
##	[3088]	330000	2660000	5010000	1000000	75000	300000	754000
##	[3095]	100000	351283	3200000	2500000	255900	10000	NA
##	[3102]	2386283	380000	NA	22000000	10000000	13000000	1420000
##	[3109]	NA	6000000	NA	875000	190000	NA	NA
##	[3116]	13200000	NA	400000	NA	458000	200000	NA

```
## [3123] 6225932      NA      NA      3000 3000000 4800000      NA
## [3130] 3707000      NA      NA      500000 15000000      NA      NA
## [3137] 15000000      NA      NA      3780000 70430000 9430000      5000
## [3144] 147000      35000      12500 5000000      NA      NA      NA
## [3151]      NA      885418      180000 9000000 3600000 1320000 156000000
## [3158] 11425000 435000      150000      40000      NA      NA      1000000
## [3165] 12500      323400 7730000 14500000 600000      250000 11536200
## [3172]      NA      3500000 1405000      59440      66810      NA      7500000
## [3179] 14747426 20000000      NA      125000      NA      200000 25000000
## [3186]      NA      28000000      NA      233644 13600000 5225260      NA
## [3193] 70000000 16633126 483610      9326      25000      298750      502512
## [3200] 350000      50000      NA      25000      6287079 67836      NA
## [3207] 11500000 1365726 1559354      NA      11074199 50000      NA
## [3214] 9165500 4055860      15000      225000 3500000 40000 15000000
## [3221] 1425380 5000000 375000 5000000 15500000      NA      NA
## [3228]      NA      NA      1037097      NA      1455000 40000 10000000
## [3235] 1494500 4000000 1025000 41250 1190000 1250000 1530000
## [3242] 400000      NA      130000 120000000 12000000 550000      NA
## [3249]      NA      440000      NA      NA      273000 1572526 4925000
## [3256] 47853300 25500000 1175250 6550000 1520000 25480000 454545
## [3263]      NA      250000      NA      NA      NA      10000000      NA
## [3270] 165500 500000 6000000 38000000 476000 100000000      NA
## [3277] 40000 2000000 6305369      NA      35000000      NA      NA
## [3284] 30000000 12500 1000000 1500000 5856515 125125 1496000
## [3291]      NA      1200 572000 712000 5000 16820910 5000000
## [3298] 950000 250000 1500000 40000 4500000 1540000 10871040
## [3305] 55000000      NA 26148000      NA 10806952 15000 2750000
## [3312] 12500 4500000 32292287      NA 7601832 8000000 13000000
## [3319] 200000 25000 132351      NA 387794
```

```
mean(as.numeric(urlComps$funding_new), na.rm=TRUE)
```

```
## Warning in mean(as.numeric(urlComps$funding_new), na.rm = TRUE): NAs introduced
## by coercion
```

```
## [1] 9506961
```

```
#the mean is 9506961
```

Sample three unique observations from urlComps\$funding\_rounds, store the results in the vector ‘observations’

```
observations <- sample(unique(urlComps$funding_rounds),3)
```

Take the mean of those observations

```
mean(observations)
```

```
## [1] 5.666667
```

```
#the mean is 4.333
```

Do the two steps (sampling and taking the mean) in one line of code

```
avg <- sum(sample(unique(urlComps$funding_rounds),3))/3
```

Explain why the two means are (or might be) different

Use the `replicate()` function to repeat your sampling of three observations of `urlComps$funding_rounds` observations five times. The first argument to `replicate()` is the number of repeats you want. The second argument is the little chunk of code you want repeated.

```
#they could be different based on what numbers were sampled from the column and based on rounding error  
replicate(5,sample(unique(urlComps$funding_rounds),3))
```

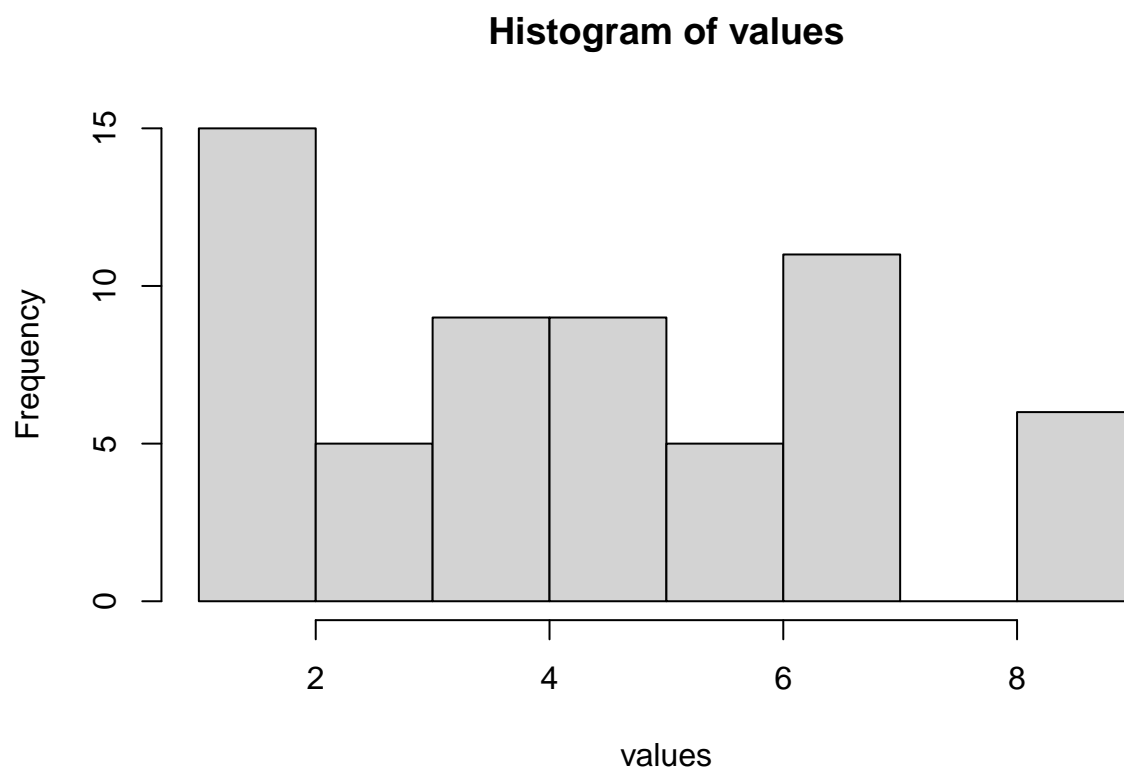
```
##      [,1] [,2] [,3] [,4] [,5]  
## [1,]    4    2    9    2    6  
## [2,]    2    4    1    3    5  
## [3,]    6    1    4    6    1
```

Rerun your replication, this time doing 20 replications and storing the output of `replicate()` in a variable called **values**.

```
values <- replicate(20,sample(unique(urlComps$funding_rounds),3))
```

Generate a **histogram** of the means stored in **values**.

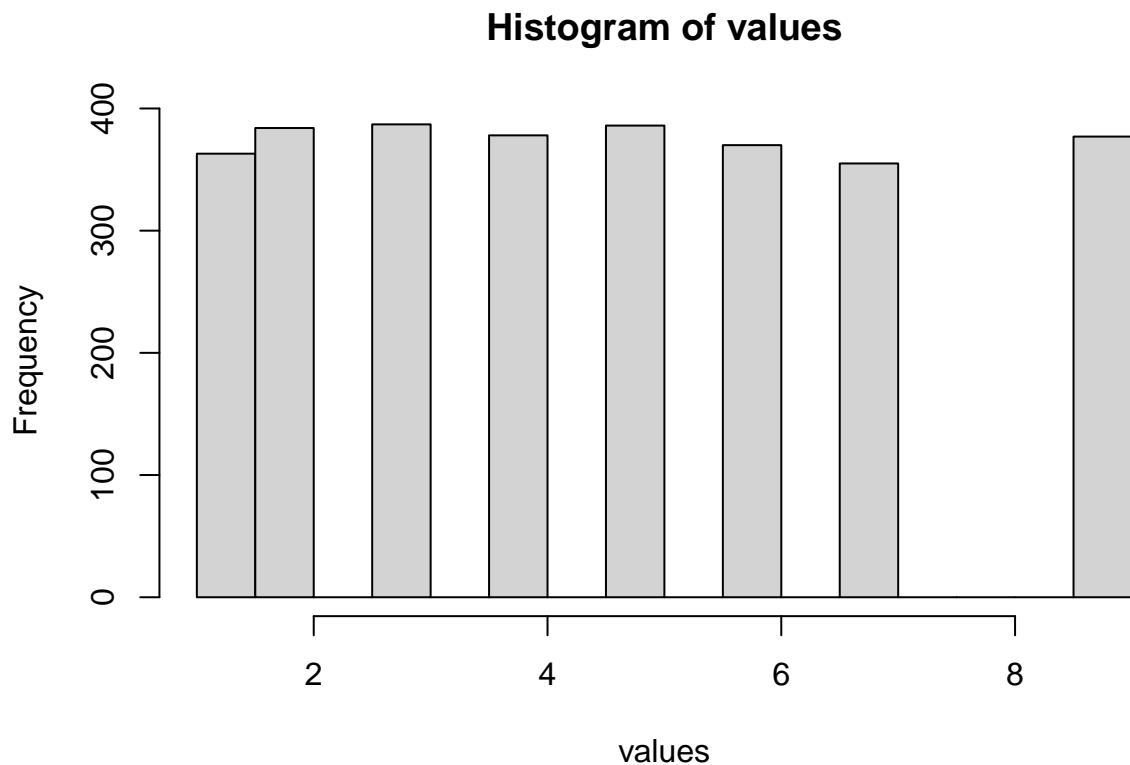
```
hist(values)
```



Rerun your replication, this time doing 1000 replications and storing the output of `replicate()` in a variable called **values**, and then generate a histogram of **values**.

```
values <- replicate(1000, sample(unique(urlComps$funding_rounds), 3))
hist(values)
```





Repeat the replicated sampling, but this time, raise your sample size from 3 to 22. How does that affect your histogram? Explain in a comment.

```
values <- replicate(1000,sample(unique(urlComps$funding_rounds),22)) hist(values)
```

*#it makes the histogram look more normalized*

Explain in a comment below, the last three histograms, why do they look different?

*#because of central limit theorem, as sample size and replications go up, all distributions will approach*