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| R version 3.6.0 (2019-04-26) -- "Planting of a Tree"  Copyright (C) 2019 The R Foundation for Statistical Computing  Platform: x86\_64-w64-mingw32/x64 (64-bit)  R is free software and comes with ABSOLUTELY NO WARRANTY.  You are welcome to redistribute it under certain conditions.  Type 'license()' or 'licence()' for distribution details.  R is a collaborative project with many contributors.  Type 'contributors()' for more information and  'citation()' on how to cite R or R packages in publications.  Type 'demo()' for some demos, 'help()' for on-line help, or  'help.start()' for an HTML browser interface to help.  Type 'q()' to quit R.  [Workspace loaded from M:/STATS/.RData]  > getwd(M:/STATS)  Error: unexpected '/' in "getwd(M:/"  > setwd("M:/STATS")  > library(ggplot2)  Attaching package: ‘ggplot2’  The following object is masked \_by\_ ‘.GlobalEnv’:  mpg  Warning message:  package ‘ggplot2’ was built under R version 3.6.1  > library(pastecs)  Warning message:  package ‘pastecs’ was built under R version 3.6.1  > library(reshape)  Warning message:  package ‘reshape’ was built under R version 3.6.1  > library(Hmisc)  Loading required package: lattice  Loading required package: survival  Loading required package: Formula  Attaching package: ‘Hmisc’  The following objects are masked from ‘package:base’:  format.pval, units  Warning message:  package ‘Hmisc’ was built under R version 3.6.1  > library(WRS)  Loading required package: MASS  Loading required package: akima  Loading required package: robustbase  Attaching package: ‘robustbase’  The following object is masked from ‘package:survival’:  heart  Attaching package: ‘WRS’  The following object is masked from ‘package:robustbase’:  hard.rejection  The following object is masked from ‘package:MASS’:  ltsreg  The following object is masked from ‘package:stats’:  ecdf  The following object is masked from ‘package:grDevices’:  bmp  Warning messages:  1: package ‘MASS’ was built under R version 3.6.1  2: package ‘akima’ was built under R version 3.6.1  3: package ‘robustbase’ was built under R version 3.6.1  > library(psych)  Attaching package: ‘psych’  The following objects are masked from ‘package:WRS’:  omega, skew  The following object is masked from ‘package:robustbase’:  cushny  The following object is masked from ‘package:Hmisc’:  describe  The following objects are masked from ‘package:ggplot2’:  %+%, alpha  Warning message:  package ‘psych’ was built under R version 3.6.1  > imageDirectory<-"M:/STATS/images"  > satisfaction <- read.csv("Employee\_Satisfactoin.csv", header =TRUE)  Error in file(file, "rt") : cannot open the connection  In addition: Warning message:  In file(file, "rt") :  cannot open file 'Employee\_Satisfactoin.csv': No such file or directory  > satisfaction <- read.csv("Employee\_Satisfaction.csv", header =TRUE)  > t.test(satisfaction$average\_monthly\_hours, mu=160)  One Sample t-test  data: satisfaction$average\_monthly\_hours  t = 100.67, df = 14999, p-value < 2.2e-16  alternative hypothesis: true mean is not equal to 160  95 percent confidence interval:  200.2507 201.8492  sample estimates:  mean of x  201.0499  > describe(satisfaction$average\_monthly\_hours)  vars n mean sd median trimmed mad min max range skew kurtosis se  X1 1 15000 201.05 49.94 200 200.64 65.23 96 310 214 0.05 -1.14 0.41  > t.test(satisfaction$last\_evaluation\_score, mu=.715)  One Sample t-test  data: satisfaction$last\_evaluation\_score  t = 0.78757, df = 14999, p-value = 0.431  alternative hypothesis: true mean is not equal to 0.715  95 percent confidence interval:  0.7133613 0.7188400  sample estimates:  mean of x  0.7161007  > describe(satisfaction$last\_evaluation\_score)  vars n mean sd median trimmed mad min max range skew kurtosis se  X1 1 15000 0.72 0.17 0.72 0.72 0.22 0.36 1 0.64 -0.03 -1.24 0  > 0.17/sqrt(15000)  [1] 0.001388044  > t.test(satisfaction$last\_evaluation\_score, mu=0.715, alternative="greater")  One Sample t-test  data: satisfaction$last\_evaluation\_score  t = 0.78757, df = 14999, p-value = 0.2155  alternative hypothesis: true mean is greater than 0.715  95 percent confidence interval:  0.7138018 Inf  sample estimates:  mean of x  0.7161007  > t.test(satisfaction$last\_evaluation\_score, mu=.71, alternative="greater")  One Sample t-test  data: satisfaction$last\_evaluation\_score  t = 4.3653, df = 14999, p-value = 6.391e-06  alternative hypothesis: true mean is greater than 0.71  95 percent confidence interval:  0.7138018 Inf  sample estimates:  mean of x  0.7161007  > t.test(satisfaction$last\_evaluation\_score, mu=.71, alternative = "greater", conf.level = 0.99)  One Sample t-test  data: satisfaction$last\_evaluation\_score  t = 4.3653, df = 14999, p-value = 6.391e-06  alternative hypothesis: true mean is greater than 0.71  99 percent confidence interval:  0.7128491 Inf  sample estimates:  mean of x  0.7161007  > t.test(satisfaction$years\_spent\_at\_company, mu=3.475)  One Sample t-test  data: satisfaction$years\_spent\_at\_company  t = 1.946, df = 14999, p-value = 0.05167  alternative hypothesis: true mean is not equal to 3.475  95 percent confidence interval:  3.474832 3.521568  sample estimates:  mean of x  3.4982  > t.test(satisfaction$years\_spent\_at\_company, mu=3.475, alternative= "greater", conf.level = 0.90)  One Sample t-test  data: satisfaction$years\_spent\_at\_company  t = 1.946, df = 14999, p-value = 0.02583  alternative hypothesis: true mean is greater than 3.475  90 percent confidence interval:  3.482921 Inf  sample estimates:  mean of x  3.4982  > describe(satisfaction$years\_spent\_at\_company)  vars n mean sd median trimmed mad min max range skew kurtosis se  X1 1 15000 3.5 1.46 3 3.28 1.48 2 10 8 1.85 4.77 0.01 |
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