```
R version 4.3.1 (2023-06-16 ucrt) -- "Beagle Scouts"
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Platform: x86 64-w64-mingw32/x64 (64-bit)
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'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.
[Previously saved workspace restored]
> rm(list = ls())
> x <- c(-109.52,-110.52,-112.37,-113.99,-116.49,-218.91,-212.94,-225.19,-223.04,-226.74,-98.61,-
97.74,-100.56,-102.26,-104.63,-208.62,-222.28,-206.54,-200.39,-212.45,-107.71,-106.67,-107.05,-10
5.5,-107.5,-223.05,-214.51,-216.71,-223.37,-216.01,-88.76,-91.2,-93.92,-93.46,-95.66,-171.51,-182
.38, -195.17, -194.16, -201.55)
> y <- c(-17.5,-17.-17.5,-17.2,-17.1,-18.8,-18.8,-19.1,-19.3,-19.4,-17.8,-17.8,-17.8,-17.7,-17.9,
-20.9, -20.9, -20.9, -20.7, -20.8, -16.3, -15.6, -15.7, -15.8, -15.6, -17.9, -17.8, -17.9, -18, -17.6, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -15.4, -1
.3, -15.3, -15.5, -15.8, -17.7, -17.6, -17.6, -17.6, -17.5)
> cor.test(x, y,alternative = "two.sided", method = "spearman", exact=FALSE )
                Spearman's rank correlation rho
data: x and y
S = 2875.5, p-value = 8.889e-08
alternative hypothesis: true rho is not equal to 0
sample estimates:
           rho
0.7302553
> # ---- Confidence interval ----
> if(!"RVAideMemoire" %in% installed.packages()) {install.packages("RVAideMemoire")}
> library(RVAideMemoire)
*** Package RVAideMemoire v 0.9-83-3 ***
> spearman.ci(x,y)
                Spearman's rank correlation
data: x and y
1000 replicates
95 percent confidence interval:
 0.5424494 0.8481117
sample estimates:
           rho
0.7302553
```