R version 4.3.1 (2023-06-16 ucrt) -- "Beagle Scouts" Copyright (C) 2023 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. Natural language support but running in an English locale 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. [Previously saved workspace restored] > library(PResiduals) > rm(list = ls())> x0 <- c(69,66,93,85,29,68,22,27,34,15,1,46,43,4,17,61,52,0,39,44,33,0,35,56,19,33,86,85,34,92,2</p> 7,47,80,56,45,33,58,64,23,26,49,19,6,29,26,0,19,58,29,0,56,73,5,6,18,30,2,1,31,0,0,0,2,2,1,3,12,5 0,12,70,64,78,44,8,53,62,5,14,64,35,4,60,48,9,6,58,53,6,2,31,45,0,0,49,20,0,4,55,21,0,43,70,45,56 ,0,1,63,75,19,69,22,88,58,9,63,54,27,87,80,32,31,71,29,25,19,62,8,7,53,39,8,22,52,42,9,39,75,30,8 0,50,32,68,21,1,41,60,27,13,25,44,9,48,39,44,76,92,57,70,61,32,48,48,39,20,80,26,22,6,2,12,1,6,3, 20,46,4,21,56,30,0,50,52,3,44,76,47,57,84,73,1,49,70,29,12,52,66,16,25,52,25,3,42,48,10,16,66,46, 3,43,66,8,7,75,22,1,17,52,0,3,25,30,12,12,1,15,40,13,6,61,13,82,45,47,43,22,11,79,48,0,25,39,0,8,40,1,2,25,41,0,2,43,41,1,5,58,55,18,3,3,59,29,5,48,62,43,5,66,54,59,7,57,80,11,17,70,15,1,17,6,0, 11, 19, 3, 0, 25, 7, 5, 8, 6, 8, 6, 3, 0, 4, 0, 2, 5, 0, 25, 1) 0,15,6,33,79,45,90,25,45,73,57,32,31,53,33,0,9,53,19,0,3,46,5,1,50,5,4,17,5,28,52,53,14,6,11,35,6 ,0,2,7,0,0,41,46,10,74,9,28,20,52,1,0,4,2,0,27,26,1,2,28,30,1,9,12,34,1,4,24,1,4,4,11,1,7,4,1,0,1,5,2,1,18,49,45,32,69) > x < - c(x0, x1)> y0 <- c(0.995,0.975,0.33375,0,0.34125,0.98375,0.05375,0.93875,0.99875,0.94375,0.1625,1,1,0.915,</p> 0.9625,1,1,0.08,0.9975,0.9875,0.92125,0.02125,0.7225,0.8625,0.2325,0.04875,0.0025,0.18,0.00875,0, 0,0,0,0,0,0.0075,0.00375,0.24,0.885,0.04875,0.9575,0.975,0.0325,0.005,0.80625,0.46,0,0.0025,0.55, 0.07375, 0, 0.17125, 0.19125, 0, 0.005, 0.0225, 0.0075, 0.00875, 0, 0, 0, 0.125, 0, 0, 0.018, 0, 0, 0.01875, 0.0025,0.0825,0.00875,0,0.405,0.565,0.285,0.11875,0.82125,0.99875,0.51875,0.34875,0.9975,0.9975,0.9475, 0.89625, 1, 1, 0.43, 0.03125, 0.9975, 1, 0.28375, 0.14875, 1, 1, 0.02, 0.7875, 1, 0.97, 0.01, 0.73375, 0.8725, 0.93125875,0.07125,0.18,0,0,0.00125,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0.01125,0.38625,0,0.0025,0.8625,0.84 75,0,0.86125,0.995,0.0325,0.00375,0.98625,0.98875,0.05625,0,0,0.00625,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0 ,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0.015,0.86625,0.0375,0.01375,0.39875,0.9775,0.63625,0.00375,0.985,0.94 .01875, 0.38875, 0.165, 0.03375, 0.87875, 0.6525, 0.005, 0.9825, 0.99875, 0.085, 0.94125, 1, 0.1375, 0.03625, 0.018755, 0.01875, 0.01875, 0.01855, 0.01855, 0.01855, 0.01855, 0.01855, 0.01855, 0.01855, 0.01855.98,0.9575,0.005,0.84375,0.12625,0.0075,0.355,0.80375,0.0075,0,0.1825,0,0.01,0.91875,0,0.0025,0.8 55,0.34625,0.00875,0.0525,0.3825,0.69,0.03875,0.71625,0.9675,0.69625,0.02,0.9975,1,0.3225,0.635,1 ,1,0.6225,0.7975,1,1,0.9975,0.36625,0.8425,1,0.98,0.17,0.985,0.99125,0.37875,0,0.02625,0.18625,0. 17125, 0.67875, 1, 0.33125, 0.16625, 0.73875, 0.9925, 0.0025, 0.0875, 0.985, 0.24125, 0.00125, 0.92375, 0.9912 5,0.01625,0.00125,0.9875,0.85375,0.005,0,0,0.00125,0,0,0,0.00375,0,0,0,0,0) > y1 <- c(0,0,0,0,0,0,0,0,0,0,0,0.00375,0,0,0.8825,0.27375,0,0.02125,0.91,0.00375,0.00875,0.285,0.9 125,0,0.18375,0.20875,0.99375,0.37125,0.01,0.85625,0.99875,0.4125,0,0.87125,0.9975,0.0725,0,0.593 75,0.915,0.1775,0.00125,0.96125,0.7225,0.0125,0.29375,0,0,0,0,0,0,0,0,0,0,0,0.00125,0,0,0,0.005,0 ,0,0,0,0,0,0,0,0,0,0,0,0,0,0.0025,0.215,0,0.1475,0.9725,0.41875,0,0.54875,1,0.0025,0,0.96125,0.1475,0.9725,0.41875,0.9725,0.1475,0.9725,0.9725,0.1475,0.9725,0.9725,0.1475,0.9725,0.97,0.00375,0.66625,0,0,0,0.22625,0.00375,0,0,0.1025,0.025,0.00375,0.1375,0.00125,0) > y < - c(y0,y1)> z0 <- c(0.97625,0.87375,1,1,0.98,0.90125,0.99125,0.73125,0.22875,0.45125,0.765,0.22375,0.05,0.1 3625,0.23875,0.03625,0.18125,0.13375,0.19125,0.465,0.6075,0.3125,0.8875,0.885,0.95875,0.99625,1,1 ,1,1,1,1,1,1,1,0.99875,1,1,0.96375,0.895,0.92,0.31125,0.76625,1,0.60625,0.77875,0.99875,0.99625,0 .54625,0.96,1,0.94625,0.82,0.99125,1,0.99,0.70375,0.93625,0.99,0.5575,0.865,0.2625,0.61875,0.9975 ,0.91375,0.87875,0.86125,1,0.99875,1,1,1,0.99875,0.94375,0.7,1,0.98625,0.38375,0.54,0.99375,0.981 25,0.69125,0.2975,0.99875,0.99875,0.66875,0.24875,0.99875,0.865,0.16375,0.51875,0.7,0.05625,0.13, 0.38375, 0.15625, 0.2575, 0.21625, 0.305, 0.4675, 0.9, 0.86625, 0.795, 0.99875, 0.91625, 0.777, 1, 1, 0.99875, 1, 0.99875, 0.991,1,1,0.99875,1,1,1,1,1,1,1,1,1,1,1,1,0.99875,1,0.9975,0.91125,0.82625,0.99875,0.98875,0.2975,0.991 25,1,0.63,0.505,0.895,1,0.99625,0.99875,0.99875,1,0.9625,0.9925,1,0.99,0.99625,0.9975,1,1,1,1,1,1

,1,1,1,1,1,1,1,1,0.99875,1,0.99875,1,0.99125,0.99625,0.97625,0.38,0.97875,0.735,0.3,0.9525,0.64,0

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.32375, 0.6425, 0.995, 0.17, 0.9425, 0.91625, 0.67125, 0.99375, 1, 1, 1, 1, 1, 1, 0.9675, 0.99875, 0.7625, 0.8925, 0.
60625, 0.995, 0.96625, 0.99875, 1, 0.7075, 0.905, 0.895, 1, 0.52625, 0.6875, 0.995, 1, 0.785, 0.8075, 1, 0.86125,
0.59,0.99625,0.93625,0.5075,0.95625,0.5025,0.22375,0.5575,0.7775,0.20125,0.72,0.95875,0.57625,0.6
3125,0.88375,0.99,0.6525,0.97,1,1,1,1,0.99875,1,0.99875,0.90875,1,1,0.93,0.69125,0.92,0.94875,0.6
6625, 0.3325, 0.51125, 0.73625, 0.41, 0.3225, 0.4975, 0.6675, 0.05875, 0.225, 0.9975, 0.935, 0.15125, 0.0475, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875, 0.05875,
.725, 0.96375, 0.18625, 0.13, 0.51625, 0.96875, 0.79125, 0.8575, 0.98625, 0.99375, 1, 1, 1, 0.3975, 0.565, 1, 0.98625, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375, 0.99375,
9875,0.53625,0.93125,0.98875,0.91125,0.56125,0.97125,0.6325,0.36625,0.4925,0.94375,0.61625,0.1,0.
70125, 0.99875, 1, 0.99875, 1, 1, 0.97125, 0.96375, 0.9525, 0.9075, 0.985, 0.975, 0.98625, 1, 0.9875)
> z1 <- c(0.98375,1,1,1,1,1,0.9975,1,1,1,0.98375,0.8675,1,0.93875,0.94125,0.99375,0.88125,0.8,0.9
5125,0.99875,0.99875,0.9725,1,1,1,0.645,1,0.23,0.59875,0.97125,0.9775,0.1725,0.33,0.91625,0.6225,
0.85125, 0.905, 0.99, 0.97125, 0.98625, 0.995, 1, 1, 1, 1, 1, 0.97, 0.8525, 0.8525, 1, 0.6775, 0.39625, 0.8775, 0.5
2375,0.1475,0.43,0.8825,0.2575,0.48125,0.6575,0.875,0.99625,0.92375,0.92625,1,1,1,1,1,1,1,1,1,1,0.9
975,0.9825,0.93125,0.97375,0.99,0.305,0.75375,1,0.99,1,1,1,1,1,1,1,0.9875,0.99875,0.9925,0.97125,
1,1,0.93375,1,0.9975,0.63125,0.75,1,0.99125,0.4475,1,1,0.40375,0.8825,1,0.98625,0.87875,0.99875,1
,0.98375,0.94625,0.97375,0.9825,0.9575,0.90125,0.9375,1,1,0.99875,1,1)
> z < - c(z0, z1)
> partial Spearman(x | y ~ z)
                                                                              est
                                                                                                                                                                       p lower CI upper CI
                                                                                                         stderr
partial Spearman 0.2809967 0.04549784 5.046697e-09 0.189622 0.3675459
Fisher Transform: TRUE
Confidence Interval: 95%
Number of Observations: 424
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