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)

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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]

```
> rm(list = ls())
> x0 < -c(0.983,0,0.06,0.212,0.041,0.184,0.046,0.997,1,0.999,0,0,1,1,0,0.024,0.998,0,0.025,1,0.00
3,0.847,1,0.89,1,0.925,0.342,1,0.005,0.58,0.996,0.999,0.958,0.001,0.084,0.92,0.946,0,0.001,0.045,
0.989, 0.998, 0.989, 0.998, 1, 1, 1, 1, 0.999, 0.017, 1, 1, 1, 0.18, 1, 0, 0.975, 1, 0.986, 0.999, 0.002, 0.998, 0, 1, 0.98
9,0,1,0.948,0.002,0.029,0.999,0.999,0.742,0.997,0.997,1,0.917,0.917,0.064,1,1,0.056,0.001,0.001,0
 .003,1,1,0.003,1,1,0.558,0.004,0.249,1,1,1,0.998,1,1,1,1,0.988,0.033,0.995,0.765,0.995,0.005,0.99
9,0.907,1,0.548,0.269,0.032,0.97,0.918,0.998,0.001,0.573,0.998,0.997,0,0.625,0.037,0.003,0,0,0.76
8, 0.021, 0.095, 0.999, 0.104, 0.984, 0.911, 0.911, 0.768, 0.958, 0.978, 1, 0.998, 0.999, 0.973, 1, 1, 1, 1, 1, 0.309, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 
.112,1,1,1,0.004,0.998,0.99,0.201,0.999,0.22,0.986,0.864,0.995,1,0.902,0.997,0.009,1,1,1,1,1,1,1,1,1
1,0,0.013,0.996,0.883,0,0,0.948,0.004,0.482,0.01,0.064,0.999,0.994,0.999,0.998,0.05,0.091,1,1,0.9
92,0.166,0.047,0.057,0.99,0.021,0.998,1,0.997,0.982,0.918,0.93,0.951,0.029,1,0.787,0,0.035,0.009,
0.999, 0.999, 1, 1, 0.999, 1, 1, 0.999, 0.988, 0.948, 1, 0.014, 0.107, 0, 0.996, 0.001, 0.005, 0.001, 0.461, 0.053, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.0
 .996,0.962,1,0.987,0.956,1,0.999,1,0.999,1,0.459,0.129,0.711,0.157,0.006,0.028,0.951,0.994,0.001,
0.046,0.047,0.939,0.002,1,0,0,0.238,0.991,1,0.804,1,0.926,0.096,0.996,0.997,0.009,0.126,0.002,0,0
.999,0.999,0.845,0,0.002,0.011,1,0,0.001,0.006,0.035,0.001,1,1,0.139,1,0.001,0.449,0,0.97,0.999,1
,0.996,0.998,0.992,1,1,0.998,1,0.997,0.998,1,1)
> x1 <- c(0.994,1,1,0.998,0.999,0.82,0.016,0.004,1,0.011,1,0.988,0.853,1,0.998,0.099,0,0.001,0.00</p>
5,0.071,0.999,0.784,0.001,0.727,1,0.609,0.999,0.008,0.187,0.483,1,1,1,1,1,0.012,1,0.001,1,0.299,1
,0.965,0.965,0.997,0,1,0.609,0.853,0,1,1,0.978,0.071,0.999,1,0.001,0.998,0.429,1,0.047,1,0.318,0.
996,0.931,1,0.836,1,0.999,1,0.025,0.999,0.839,0.044,0.984,0.753,0.988,0.002,0.999,0.284,0,0.93,0.
075, 1, 0.994, 0.998, 0.002, 0.551, 0.586, 0, 1, 0.045, 1, 1, 1, 0.521, 0.027, 1, 0.996, 1, 1, 0.005, 0.999, 1, 0.998, 1
,0.053,0.998,0.001,0.28,0,0.003,1,0,0.989,0.673,0.781,0.655,0.999,1,1,0,1,0.812,0.982,0.939,0,1,0
.985, 0.999, 0.991, 0.107, 1, 0.995, 0.994, 1, 0, 1, 0.984, 1, 1, 0.353, 1, 0.995, 0.995, 0.057, 0.001, 0.047, 0.005, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0.007, 0
0.005, 0.994, 0.756, 0.653, 0.756, 1, 0.997, 0.12, 0.978, 0.075, 0.003, 0.592, 0.525, 0.575, 1, 0.029, 0.992, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.048, 0.
6,0.995,0.999,1,1,1,1,0.939,0.863,1,0.258,0.999,0.996,0.997,0.99,0.009,1,1,1,1,1,1,1,0.288,1,0.996,
0.27, 1, 1, 1, 0.129, 1, 1, 0.985, 0.022, 1, 1, 1, 1, 1, 0.91, 1, 1, 1, 0.999, 1, 0, 1, 0.348, 0, 1, 1, 1, 1, 1, 1, 1, 1, 0.324, 0.828
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882,0.894,0.646,0.997,0.462,1,1,1,1,0.245,0.987,1,0.999,0.989,0.999,0.999,1,1,1,0.988,0.016,0.856
,0.029,1,0.989,0.981,0.999,1,1,1,0.999,0.999,1,1,1,1,0.145,0.994,1,1,0.999,0.999,1,1,1,1,1)
2,1,1,1,1,1,0.999,0.997,0.999,1,1,0.695,1,1,1,0.997,1,0.985,1,1,1,1,1,1,1,1,1,1,0.999,0.994,1,1,0.9
88,0.988,0.662,1,1,1,1,1,1,1,0.999,0.999,0.702,0.998,0.998,0.549,0.383,0.048,1,0.769,1,1,0.805,0.
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> x < -c(x0, x1, x2, x3)
> y0 <- c(0.0875,0.0704,0.3871,0.0715,0.1469,0.1301,0.1004,0.2399,0.3157,0.3346,0.0847,0.0847,0.8</p>
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1064, 0.4542, 0.0847, 0.1402, 0.1569, 0.6046, 0.1506, 0.6762, 0.7613, 0.8819, 0.9112, 0.2728, 0.7036, 0.5815, 0
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Page 2

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0.0749, 0.7641, 0.6607, 0.1078, 0.0698, 0.0973, 0.098, 0.7277, 0.0694, 0.0866, 0.1188, 0.0703, 0.0864, 0.3017, 0.0868, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 0.098, 
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0.6275, 0.7531, 0.8192, 0.5821, 0.8099, 0.9041)
> y1 <- c(0.7959,0.9433,0.8308,0.4849,0.6018,0.166,0.0905,0.1541,0.7114,0.1001,0.3914,0.4022,0.33</p>
45,0.7707,0.8916,0.1337,0.0517,0.079,0.1289,0.6578,0.3637,0.5736,0.0909,0.184,0.6638,0.2145,0.266
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8236, 0.4312, 0.9586, 0.9211, 0.9457, 0.2204, 0.9751, 0.6862, 0.5014, 0.87, 0.9895, 0.9559, 0.1423, 0.9893, 0.9
59,0.2972,0.1844,0.5764,0.6664,0.9914,0.9788,0.3332,0.6886,0.9555,0.9818,0.3176,0.929,0.0674,0.35
96,0.1,0.0707,0.6841,0.6841,0.1786,0.6712,0.6712,0.3525,0.7705,0.2741,0.2396,0.8699,0.495,0.9816,
0.313, 0.0759, 0.0851, 0.133, 0.2681, 0.5519, 0.4956, 0.1128, 0.9547, 0.3438, 0.9907, 0.9907, 0.9859, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.992, 0.9
992,0.9775,0.9775,0.9806,0.9806,0.3505,0.4323,0.4985,0.975,0.9645,0.9629,0.476,0.0945,0.2732,0.63
7,0.4983,0.1838,0.5601,0.1582,0.4217,0.7842,0.9711,0.9851,0.4161,0.894,0.806,0.7086,0.9333,0.7582
,0.6404,0.865,0.8337,0.8366,0.4859,0.1153,0.6432,0.1239,0.6658,0.5289,0.2579,0.309,0.9302,0.902,0
 .5938,0.7066,0.8311,0.8698,0.7971,0.8354,0.9692,0.3073,0.3963,0.9698,0.9851,0.7848,0.7848,0.9234,
0.9538,0.9041,0.9822,0.9399)
> y2 <- c(0.9211,0.8144,0.9955,0.9955,0.5401,0.0972,0.6782,0.6639,0.8456,0.2068,0.2278,0.1234,0.9</p>
601,0.9601,0.1514,0.4763,0.1819,0.9955,0.9955,0.9851,0.9851,0.9851,0.9958,0.9958,0.1749,0.9948,0.
994,0.994,0.9935,0.9935,0.9958,0.9958,0.9934,0.9934,0.9938,0.979,0.979,0.9929,0.9929,0.9885,0.990
3,0.988,0.9716,0.9919,0.9917,0.9894,0.9894,0.9943,0.9968,0.9968,0.9965,0.9944,0.9944,0.2301,0.326
7,0.6555,0.9315,0.9303,0.4976,0.9528,0.9593,0.196,0.6242,0.9036,0.7702,0.9151,0.8814,0.8952,0.717
, 0.5542, 0.9722, 0.944, 0.9489, 0.28, 0.9407, 0.695, 0.695, 0.266, 0.7829, 0.2204, 0.891, 0.6533, 0.6533, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944, 0.944
,0.8819,0.8819,0.5366,0.8923,0.9796,0.9336,0.7102,0.9808,0.9808,0.7916,0.7916,0.7131,0.8974,0.961
1,0.9611,0.9853,0.9389,0.6316,0.5084,0.6905,0.6279,0.2032,0.5646,0.5646,0.1886,0.1612,0.2496,0.84
58,0.9212,0.9758,0.9852,0.6753,0.3391,0.4578,0.1005,0.9572,0.1978,0.8108,0.6727,0.967,0.9752,0.31
47,0.1682,0.1092,0.1713,0.5645,0.5544,0.705,0.7301,0.7776,0.0938,0.6756,0.4473,0.4398,0.5957,0.92
73,0.1298,0.6878,0.9607,0.9212,0.9265,0.52,0.2692,0.3025,0.1716,0.148,0.1339,0.0663,0.8066,0.9302
,0.1792,0.5531,0.8529,0.4078,0.7719,0.393,0.8323,0.1302,0.9919,0.9639,0.9887,0.5838,0.3865,0.1035
 ,0.9381,0.9103,0.5031,0.9701,0.9735,0.8559,0.3413,0.5414,0.4467,0.8844,0.3904,0.6079,0.2418,0.384
5,0.9377,0.5111,0.9772,0.9123,0.6226,0.0623,0.9567,0.9432,0.9353,0.968,0.9778,0.9834,0.9824,0.951
8,0.4146,0.4146,0.6376,0.7664,0.9742,0.9809,0.6859,0.2846,0.7809,0.983,0.2736,0.448,0.9639,0.8418
,0.4817,0.8365,0.9667,0.8368,0.6515,0.2472,0.9881,0.9884,0.9811,0.9891,0.99,0.9841,0.9859,0.9654,
0.9838,0.9684,0.9847,0.9834,0.9731,0.9561,0.9873,0.992,0.9862,0.993,0.9951,0.9922,0.9893,0.0809,0
 .46,0.891,0.9921,0.8153,0.8715,0.9454,0.8307,0.1355,0.9761,0.9749,0.9767,0.984,0.9895,0.9777,0.97
19,0.9911,0.9691,0.9758,0.9803,0.9726,0.9842,0.9818,0.9608,0.9915,0.9923,0.986,0.9891,0.9945,0.99
89,0.9803,0.9803,0.0749,0.8173,0.7966,0.817,0.7941,0.7941,0.4972,0.3057,0.4134,0.1588,0.8532,0.91
82,0.7077,0.9744,0.3487,0.0563,0.9691,0.9725,0.9814,0.9761,0.9576,0.9585,0.9773,0.9558,0.9693,0.9
629,0.9629,0.9469,0.9842,0.977,0.9901)
> y3 <- c(0.9888,0.6097,0.809,0.9751,0.664,0.6442,0.4325,0.2947,0.9744,0.9883,0.9886,0.9812,0.957</p>
4,0.9881,0.993,0.9894,0.9948,0.981,0.9887,0.9797,0.9959,0.9959,0.9892,0.9892,0.9906)
> y < -c(y0,y1,y2,y3)
> cor.test(x, y,alternative = "two.sided", method = "spearman", exact=FALSE )
```

Spearman's rank correlation rho

data: x and y
1000 replicates

95 percent confidence interval:
0.7551226 0.8091782
sample estimates:
rho
0.7835111