R version 4.4.0 (2024-04-24) -- "Puppy Cup"
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Platform: aarch64-apple-darwin20

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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.

[R.app GUI 1.80 (8376) aarch64-apple-darwin20]

[History restored from /Users/alperkaragol/.Rapp.history]

,0.3275,0.1753,0.889,0.939,0.91,0.708,0.1109,0.3605,0.589,0.4397,0.2154)

```
> # Load necessary libraries
> library(ggplot2)
> # Given data
  > x10 <-
    c(\emptyset.7198, \emptyset.5522, \emptyset.5682, \emptyset.8188, \emptyset.6676, \emptyset.8691, \emptyset.8691, \emptyset.6299, \emptyset.4361, \emptyset.639, \emptyset.2365, \emptyset.1291, \emptyset.1191, \emptyset.998, \emptyset.1275, \emptyset.155, \emptyset.1241, \emptyset.1191, \emptyset.119
  7, 0.2304, 0.3406, 0.8151, 0.8002, 0.4253, 0.6273, 0.5947, 0.4186, 0.4107, 0.6984, 0.1775, 0.807, 0.6933, 0.3168, 0.3877, 0.4871, 0.1317, 0.2453, 0.6473, 0.2073, 0.811, 0.2437, 0.1796, 0.217, 0.3557, 0.5927, 0.1553, 0.1941, 0.782, 0.3706, 0.7104, 0.6755, 0.7017, 0.887, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.24533, 0.24533, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.2453, 0.24
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 $\begin{array}{c} c(0.9509, 0.8753, 0.6562, 0.3691, 0.9724, 0.9643, 0.589, 0.7936, 0.737, 0.3001, 0.5113, 0.947, 0.8505, 0.7369, 0.8136, 0.8882, 0.7659, 0.9184, 0.8926, 0.7099, 0.6571, 0.2015, 0.6457, 0.6551, 0.1828, 0.432, 0.4347, 0.1177, 0.2726, 0.3467, 0.1348, 0.3143, 0.3889, 0.1477, 0.222, 0.286, 0.12, 0.1571, 0.1973, 0.101, 0.449, 0.3346, 0.2595, 0.1956, 0.1271, 0.2014, 0.1725, 0.5377, 0.626, 0.236, 0.1946, 0.117, 0.856, 0.1027, 0.1244, 0.1127, 0.396, 0.1508, 0.5864, 0.4548, 0.3153, 0.1717, 0.122, 0.1935, 0.315, 0.6049, 0.7694, 0.2928, 0.6715, 0.6285, 0.6334, 0.7355, 0.8656, 0.5686, 0.3377, 0.5142, 0.8722, 0.9043, 0.5076, 0.5526, 0.6016, 0.53, 0.4204, 0.7989, 0.1796, 0.5621, 0.4881, 0.2259, 0.251, 0.2889, 0.1599, 0.3326, 0.644, 0.2783, 0.1438, 0.1307, 0.926, 0.861, 0.1172, 0.1045, 0.3221, 0.157, 0.3271, 0.3937, 0.1382, 0.2685, 0.2996, 0.1116, 0.1707, 0.1902, 0.663, 0.2505, 0.1456, 0.1113, 0.848, 0.815, 0.657, 0.1024, 0.2663, 0.776, 0.2847, 0.142, 0.1378, 0.883, 0.912, 0.694, 0.1178, 0.2898, 0.788, 0.4512, 0.1857, 0.1889, 0.905, 0.798, 0.942, 0.1101, 0.3366, 0.2337, 0.4723, 0.5122, 0.2462, 0.2975, 0.3716, 0.1683, 0.2148, 0.3485, 0.4139, 0.8209, 0.896, 0.499, 0.6375, 0.6102, 0.6686, 0.4733, 0.883, 46, 0.2353, 0.5271, 0.5639, 0.1993, 0.3458, 0.376, 0.2469, 0.2505, 0.3508, 0.2, 0.568, 0.6441, 0.195, 0.4371, 0.3712, 0.1918, 0.2687, 0.402, 0.2663, 0.2768, 0.2505, 0.3508, 0.2, 0.568, 0.6441, 0.195, 0.4371, 0.3712, 0.1918, 0.2687, 0.26$ 

0.41, 0.654, 0.28, 0.4333, 0.2206, 0.1721, 0.1472, 0.1878, 0.1733, 0.7791, 0.3232, 0.7148, 0.8001, 0.4152, 0.4882, 0.4812, 0.2538, 0.3434, 0.7307, 0.3051, 0.1064, 0.269, 0.3133, 0.2747, 0.4818, 0.7383, 0.2453, 0.1804, 0.208, 0.4, 0.5939, 0.1878, 0.3424, 0.3388, 0.2353, 0.2219, 0.2759, 0.4143, 0.1568, 0.2824, 0.6092, 0.4356, 0.655, 0.4052, 0.4138, 0.3459, 0.832, 0.3955, 0.2541, 0.1618, 0.1243, 0.112, 0.695, 0.2097, 0.4602, 0.696, 0.3395, 0.207, 0.1502, 0.1194, 0.1085, 0.678, 0.1498, 0.4431, 0.583, 0.2577, 0.1306, 0.11, 0.769, 0.833, 0.6, 0.886, 0.2905, 0.579, 0.2606, 0.1379, 0.1083, 0.798, 0.786, 0.644, 0.87, 0.2587, 0.171, 0.882, 0.149, 0.2906, 0.2273, 0.3778, 0.1955, 0.1973, 0.2713, 0.645, 0.2979, 0.1534, 0.1328, 0.849, 0.864, 0.648, 0.1095, 0.3115, 0.9526, 0.9518, 0.8691, 0.9691, 0.8736, 0.978, 0.9812, 0.9025, 0.7229, 0.971, 0.1147, 0.1115, 0.1273, 0.1118, 0.2544, 0.2877, 0.869, 0.1947, 0.732, 0.6343, 0.3339, 0.1754, 0.1608, 0.2255, 0.2544, 0.203, 0.6492, 0.6192)

c(0.9655, 0.9546, 0.6909, 0.896, 0.8267, 0.8236, 0.7624, 0.9344, 0.2994, 0.7574, 0.7067, 0.5481, 0.5832, 0.5988, 0.5761, 0.412, 0.908, 0.8267, 0.82613,0.9478,0.7054,0.9205,0.8965,0.8861,0.9234,0.9884,0.8328,0.5043,0.9854,0.8178,0.9756,0.9065,0.7394,0.8862,0.9952,0 .8969, 0.7088, 0.9223, 0.6048, 0.8823, 0.853, 0.6548, 0.8819, 0.9913, 0.7247, 0.4973, 0.1, 0.3216, 0.3723, 0.2403, 0.18, 0.1659, 0.50, 0.20017,0.2273,0.8805,0.9148,0.5448,0.8459,0.9285,0.6056,0.8984,0.9696,0.8607,0.6857,0.4916,0.1913,0.5802,0.5369,0.4113,0 .6834, 0.9515, 0.3858, 0.3881, 0.5386, 0.9597, 0.9566, 0.5134, 0.9004, 0.7338, 0.895, 0.7409, 0.9188, 0.7535, 0.2697, 0.7683, 0.4231,0.3646,0.6128,0.9873,0.2775,0.4474,0.6635,0.9771,0.9931,0.9305,0.954,0.817,0.997,0.8602,0.9967,0.3654,0.957,0.948,0 .4517, 0.7718, 0.6372, 0.9127, 0.5659, 0.9222, 0.725, 0.6005, 0.4179, 0.1375, 0.1631, 0.1337, 0.2725, 0.2052, 0.6799, 0.306, 0.6527, 0.2052, 0.6799, 0.2052, $0.928\overset{.}{3}, 0.677\overset{.}{7}, 0.596\overset{.}{,} 0.5899\overset{.}{,} 0.6145\overset{.}{,} 0.5591\overset{.}{,} 0.988\overset{.}{6}, 0.367\overset{.}{7}, 0.833\overset{.}{,} 0.9734\overset{.}{,} 0.6594\overset{.}{,} 0.4946\overset{.}{,} 0.2706\overset{.}{,} 0.9467\overset{.}{,} 0.3921\overset{.}{,} 0.9999\overset{.}{,} 0.6955\overset{.}{,} 0.9088\overset{.}{,} 0.9346\overset{.}{,} 0.5747, 0.8743\overset{.}{,} 0.7816\overset{.}{,} 0.9171, 0.763\overset{.}{,} 0.7508\overset{.}{,} 0.9828\overset{.}{,} 0.857\overset{.}{,} 0.9723\overset{.}{,} 0.9535\overset{.}{,} 0.844\overset{.}{,} 0.9557\overset{.}{,} 0.9984\overset{.}{,} 0.9239\overset{.}{,} 0.5997\overset{.}{,} 0.9984\overset{.}{,} 0.9171\overset{.}{,} 0.763\overset{.}{,} 0.9882\overset{.}{,} 0.9828\overset{.}{,} 0.9723\overset{.}{,} 0.9723\overset{.}{,} 0.9844\overset{.}{,} 0.9557\overset{.}{,} 0.9984\overset{.}{,} 0.9239\overset{.}{,} 0.5997\overset{.}{,} 0.9883\overset{.}{,} 0.9723\overset{.}{,} 0.9723\overset{.}{,} 0.9723\overset{.}{,} 0.9843\overset{.}{,} 0.9984\overset{.}{,} 0.9983\overset{.}{,} 0.9983\overset{.}{,} 0.9993\overset{.}{,} 0.9933\overset{.}{,} 0.99$ , 0.3655, 0.7548, 0.8682, 0.398, 0.6771, 0.5526, 0.8567, 0.4662, 0.6809, 0.3518, 0.9748, 0.9665, 0.3293, 0.8953, 0.723, 0.2423, 0.6788, 0.8682, 0.86,0.9232,0.8884,0.8861,0.8222,0.9083,0.8065,0.9119,0.9441,0.7592,0.8467,0.1981,0.9184,0.8314,0.2521,0.5406,0.4379,0.1 387,0.3179,0.7896,0.4515,0.5987,0.3456,0.7574,0.5717,0.698,0.5516,0.4535,0.6417,0.2625,0.3836,0.2356,0.5505,0.4372,0 .531, 0.4647, 0.3051, 0.48, 0.583, 0.3212, 0.1901, 0.717, 0.99, 0.1019, 0.651, 0.1041, 0.3599, 0.723, 0.5782, 0.2498, 0.1069, 0.1293, 0.10690.1291, 0.756, 0.1548, 0.5979, 0.3043, 0.3298, 0.2691, 0.5062, 0.4253, 0.5349, 0.4195, 0.3135, 0.3617, 0.3099, 0.9362, 0.8953, 0.2756,0.7116,0.6419,0.1493,0.4811,0.8686,0.1428,0.7847,0.616,0.1619,0.4182,0.3479,0.718,0.2458,0.6689,0.515,0.4424,0.193 ,0.859,0.969,0.1056,0.716,0.845,0.4672,0.531,0.4763,0.2169,0.818,0.947,0.969,0.621,0.995,0.4533,0.1349,0.8297,0.6838 ,0.1549,0.4179,0.3637,0.839,0.2408,0.6328,0.8123,0.7161,0.6134,0.8423,0.7489,0.8321,0.8434,0.7088,0.6617,0.427,0.975 3,0.945,0.4604,0.8358,0.7756,0.2162,0.63,0.9468,0.281,0.9664,0.9192,0.2976)

c(0.8089, 0.7063, 0.1119, 0.5855, 0.9172, 0.6173, 0.4251, 0.4815, 0.6436, 0.5225, 0.667, 0.7556, 0.4819, 0.5066, 0.3522, 0.9591, 0.9506, 0.9591, 0.9506, 0.9591, 0.9506, 0.9591, 0.9506, 0.9591, 0.9506, 0.9591, 0.9506, 0.9591, 0.9506, 0.9591, 0.9506, 0.9591, 0.9506, 0.9118, 0.4491, 0.8655, 0.8087, 0.7867, 0.6486, 0.9372, 0.3403, 0.943, 0.9526, 0.4737, 0.8861, 0.7975, 0.4896, 0.6651, 0.9576, 0.6917, 0.9724, 0.9983, 0.8458, 0.98, 0.9296, 0.9756, 0.9559, 0.9994, 0.6656, 0.9133, 0.972, 0.8727, 0.8671, 0.8461, 0.8855, 0.9059, 0.994, 0.9943,0.9812,0.9831,0.9943,0.9867,0.9958,0.9979,0.9792,0.8516,0.2576,0.6437,0.6535,0.3589,0.4716,0.4023,0.9251,0.3247 ,0.5269,0.1283,0.7797,0.5147,0.1912,0.229,0.1805,0.3304,0.3865,0.6198,0.9986,0.999,0.9942,0.9967,0.9841,0.998,0.9966,0.999,0.9967,0.9967,0.998,0.998,0.9966,0.999,0.998,0.99, 0.9929, 0.9836, 0.6048, 0.9814, 0.9824, 0.6644, 0.9307, 0.757, 0.957, 0.7863, 0.9606, 0.5869, 0.5955, 0.64, 0.817, 0.7675, 0.8128, 0.9814,.7931, 0.6606, 0.3731, 0.761, 0.5424, 0.3123, 0.1345, 0.113, 0.1379, 0.2079, 0.1472, 0.6167, 0.668, 0.5091, 0.1799, 0.1164, 0.881, 0.1299, 0.1164, 0.1299, 0.1164,1017, 0.643, 0.1032, 0.373, 0.669, 0.5337, 0.3249, 0.1305, 0.1213, 0.118, 0.2127, 0.1279, 0.4842, 0.8077, 0.5114, 0.8306, 0.9143, 0.8077, 0.183, 0.8902, 0.984, 0.8135, 0.7363, 0.4542, 0.8071, 0.9173, 0.7947, 0.7947, 0.5407, 0.96, 0.8279, 0.991, 0.975, 0.8625, 0.9179, 0.972, 0.9913,0.8257,0.9834,0.9947,0.93,0.8383,0.893,0.3101,0.4143,0.2729,0.1874,0.1676,0.9008,0.1098,0.9182,0.9938,0.969,0.9816 , ó.9936, ó.9527, ó.9942, ó.9974, ó.9648, ó.9328, ó.3842, ó.9352, ó.8822, ó.404, ó.8008, ó.5616, ó.2597, ó.5867, ó.8946, ó.997, ó.996 4,0.9894,0.9897,0.9592,0.9951,0.9976,0.9778,0.961,0.8406,0.9505,0.9957,0.7946,0.9763,0.9432,0.9754,0.9764,0.998,0.58 43, 0.9317, 0.9895, 0.8793, 0.7021, 0.6289, 0.9725, 0.6639, 0.9969, 0.1464, 0.7095, 0.4271, 0.1601, 0.2426, 0.2415, 0.2796, 0.1611, 0.1601,.4271, 0.582, 0.467, 0.1815, 0.1076, 0.743, 0.85, 0.481, 0.851, 0.3013, 0.749, 0.4972, 0.1473, 0.1761, 0.812, 0.1015, 0.2817, 0.818,.3884,0.2019,0.6719,0.4043,0.6187,0.1705,0.99,0.4795,0.1749,0.7572,0.6497,0.9624,0.97,0.9139,0.8264,0.7431,0.9164,0.6797,0.9908,0.9575,0.9892,0.9977,0.9385,0.9827,0.9717,0.9826,0.9778,0.9967,0.1041,0.9169,0.8722,0.2361,0.5416,0.4304 ,0.71,0.2428,0.9555,0.2189,0.2851,0.1496,0.6512,0.4743,0.5061,0.3488,0.334,0.3271,0.2891,0.3698,0.1345,0.7051,0.5001 ,0.5825,0.385,0.3963,0.5247,0.1546,0.8724,0.8124,0.1165,0.7898,0.602,0.793)

 $\begin{array}{c} c(0.4759, 0.8971, 0.2731, 0.3864, 0.1455, 0.69, 0.4798, 0.5633, 0.3987, 0.375, 0.5281, 0.1641, 0.9436, 0.9352, 0.1657, 0.8593, 0.694\\ 3, 0.917, 0.5192, 0.9523, 0.3204, 0.3747, 0.2015, 0.7525, 0.5214, 0.6168, 0.4221, 0.4149, 0.4683, 0.1454, 0.9289, 0.9116, 0.1389, 0.829, 0.6346, 0.968, 0.4736, 0.9599, 0.6866, 0.6644, 0.4256, 0.8531, 0.7197, 0.8033, 0.6964, 0.6271, 0.6559, 0.2623, 0.9555, 0.935, 0.2591, 0.8419, 0.7162, 0.1767, 0.5397, 0.9784, 0.4104, 0.4676, 0.2122, 0.7875, 0.6236, 0.6831, 0.5706, 0.4806, 0.6484, 0.1627, 0.9021, 0.8275, 0.1458, 0.6886, 0.518, 0.947, 0.3799, 0.9448, 0.1879, 0.3267, 0.1035, 0.5597, 0.3934, 0.4447, 0.2964, 0.2858, 0.4955, 0.860, 0.8365, 0.7038, 0.844, 0.5505, 0.4005, 0.51, 0.2484, 0.8436, 0.2437, 0.312, 0.1466, 0.6267, 0.4533, 0.4784, 0.3831, 0.3371, 0.4259, 0.1934, 0.9258, 0.8777, 0.1263, 0.8261, 0.6537, 0.723, 0.5334, 0.9407, 0.1003, 0.8782, 0.8282, 0.561, 0.7464, 0.5309, 0.431, 0.3965, 0.9088, 0.2291, 0.3357, 0.1191, 0.6355, 0.4873, 0.5073, 0.3542, 0.3194, 0.5124, 0.1197, 0.9086, 0.8902, 0.1276, 0.7792, 0.5924, 0.733, 0.3977, 0.9535, 0.4352, 0.9777, 0.9604, 0.5105, 0.862, 0.9151, 0.5193, 0.8217, 0.9935, 0.3447, 0.9816, 0.9634, 0.4004, 0.915, 0.8262, 0.2748, 0.7187, 0.9855, 0.1998, 0.7984, 0.5092, 0.1694, 0.7773, 0.6136, 0.1334, 0.4933, 0.81, 0.6674, 0.5471, 0.511, 0.7342, 0.6938, 0.7515, 0.8105, 0.5394, 0.6291, 0.6934, 0.5108, 0.5695, 0.8298, 0.7173, 0.8377, 0.8268, 0.5992, 0.5959, 0.4094, 0.2439, 0.2666, 0.5741, 0.5003, 0.6586, 0.4987, 0.4033, 0.373, 0.3201, 0.2025, 0.2045, 0.5599, 0.4012, 0.6651, 0.4224, 0.3262, 0.3899, 0.9447, 0.9966, 0.9958, 0.9638, 0.9959, 0.9617, 0.9687, 0.9971, 0.9941, 0.9997, 0.9825, 0.9879, 0.9912, 0.9938, 0.9988, 0.9938, 0.9988, 0.9983, 0.9984, 0.9881, 0.9966, 0.9816, 0.9976, 0.9911) 0.9779, 0.9943, 0.9177, 0.9944, 0.9955, 0.9480, 0.9877, 0.9681, 0.9666, 0.9816, 0.9976, 0.$ 

 $\begin{array}{c} \text{$<\,\alpha$}\\ \text{$<\,\alpha$}\\$ 

776, 0.9506, 0.6604, 0.7232, 0.6653, 0.7192, 0.7919, 0.973, 0.2054, 0.7857, 0.8328, 0.5034, 0.3522, 0.2317, 0.4079, 0.3833, 0.9343, 0.1716, 0.7287, 0.8388, 0.2396, 0.6431, 0.5095, 0.1351, 0.3502, 0.6454, 0.3468, 0.9064, 0.9563, 0.4029, 0.9072, 0.7949, 0.2899, 0.6808, 0.9237, 0.4509, 0.9153, 0.9572, 0.5306, 0.731, 0.6845, 0.6434, 0.798, 0.9719, 0.989, 0.4961, 0.5065, 0.1934, 0.2147, 0.2385, 0.191, 0.2335, 0.6721, 0.3529, 0.2532, 0.3559, 0.3159, 0.2552, 0.3816, 0.4667, 0.229, 0.161, 0.2838, 0.6778, 0.8062, 0.2843, 0.7177, 0.5261, 0.6694, 0.4303, 0.5838, 0.2683, 0.8808, 0.8673, 0.3931, 0.6766, 0.4489, 0.7119, 0.4406, 0.8671, 0.7942, 0.5261, 0.73, 0.7603, 0.5905, 0.7199, 0.9595, 0.597, 0.54, 0.8909, 0.9547, 0.9866, 0.8403, 0.9292, 0.9288, 0.9573, 0.969, 0.9962, 0.1421, 0.1846, 0.4873, 0.3272, 0.4697, 0.2874, 0.9256, 0.6616, 0.9528, 0.9723, 0.8161, 0.9325, 0.9671, 0.9079, 0.9612, 0.9969, 0.9212, 0.6725, 0.9663, 0.8308, 0.9213, 0.9781, 0.9079, 0.9659, 0.9936, 0.931, 0.8371, 0.2768, 0.767, 0.7711, 0.492, 0.3285) <math display="block"> > x17 < - 0.565

c(0.1895, 0.877, 0.3473, 0.9429, 0.52, 0.9848, 0.9848, 0.6371, 0.9301, 0.8105, 0.9089, 0.8174, 0.9649, 0.8412, 0.8947, 0.8214, 0.8656,0.7067,0.875,0.9795,0.7286,0.7339,0.1207,0.6369,0.5984,0.3499,0.1635,0.1231,0.7207,0.152,0.8564,0.2288,0.8344,0.55 91,0.6062,0.28,0.2448,0.5919,0.2568,0.8484,0.6135,0.985,0.9597,0.7312,0.7741,0.744,0.5041,0.9194,0.9856,0.8777,0.992 5,0.9957,0.9529,0.9362,0.8737,0.9983,0.8698,0.9985,0.1779,0.6325,0.3816,0.3004,0.2294,0.2643,0.845,0.1576,0.3952,0.9 915, 0.9431, 0.9862, 0.9236, 0.7573, 0.9404, 0.9992, 0.9019, 0.8628, 0.6666, 0.5277, 0.7438, 0.5014, 0.4296, 0.6617, 0.9908, 0.3933, 0.5014, 0.4296, 0.6617, 0.9908, 0.3933, 0.5014, 0.4296, 0.6617, 0.9908, 0.3933, 0.5014, 0.4296, 0.6617, 0.9908, 0.3933, 0.5014, 0.4296, 0.6617, 0.9908, 0.3933, 0.5014, 0.4296, 0.6617, 0.9908, 0.3933, 0.5014, 0.4296, 0.6617, 0.9908, 0.3933, 0.5014, 0.4296, 0.6617, 0.9908, 0.3933, 0.5014, 0.4296, 0.6617, 0.9908, 0.3933, 0.5014, 0.4296, 0.6617, 0.9908, 0.3933, 0.5014, 0.4296, 0.6617, 0.9908, 0.3933, 0.5014,0.4568, 0.1535, 0.8307, 0.3147, 0.36, 0.1928, 0.1949, 0.7464, 0.2267, 0.7227, 0.4006, 0.821, 0.9885, 0.7006, 0.8456, 0.8133, 0.9621, 0.9885, 0.7006, 0.8456,0.7937, 0.9986, 0.2238, 0.8602, 0.5864, 0.5194, 0.288, 0.2814, 0.8908, 0.2825, 0.8242, 0.2047, 0.5621, 0.989, 0.6562, 0.7312, 0.5915, 0.8602, 0.9674, 0.4919, 0.9979, 0.9404, 0.7525, 0.9244, 0.8872, 0.8341, 0.9363, 0.9969, 0.7886, 0.647, 0.855, 0.9537, 0.9986, 0.9221, 0.963, 0.9647, 0.8647, 0.876, 0.9647, 0.876, 0.9647,9,0.9313,0.9826,0.9583,0.9994,0.4599,0.5678,0.3225,0.6407,0.6073,0.6263,0.6294,0.4954,0.3867,0.3503,0.9463,0.7987,0. 5312, 0.6162, 0.5575, 0.7986, 0.6242, 0.9271, 0.628, 0.5459, 0.1864, 0.881, 0.101, 0.1205, 0.679, 0.1192, 0.4062, 0.607, 0.4527, 0.178, 0.1881, 0.188,0.756,0.952,0.1145,0.663,0.986,0.3869,0.5299,0.6086,0.5232,0.69,0.5333,0.6952,0.7922,0.4502,0.4174,0.9791,0.9655,0 .9678, 0.9829, 0.91, 0.9858, 0.9851, 0.9518, 0.8713, 0.3744, 0.7399, 0.8914, 0.657, 0.7258, 0.4716, 0.9251, 0.6851, 0.9781, 0.9352, 0.6678, 0.9869, $.9821, \emptyset.9986, \emptyset.95, \emptyset.9792, \emptyset.966, \emptyset.991, \emptyset.9662, \emptyset.9995, \emptyset.9977, \emptyset.9866, \emptyset.9951, \emptyset.9881, \emptyset.9127, \emptyset.9908, \emptyset.997, \emptyset.9803, \emptyset.9, \emptyset.1899, \emptyset.99803, \emptyset$ ,0.188,0.984,0.2909,0.8448,0.7802,0.7787,0.7627,0.9982,0.9429,0.9879,0.996,0.9536,0.9758,0.9734,0.979,0.9668,0.9977, 0.1162,0.7333,0.7301,0.158,0.3819,0.2602,0.5523,0.4701,0.8982,0.13,0.7294,0.7236,0.26,0.511,0.3945,0.4246,0.6968,0.8 526,0.9697,0.9962,0.9949,0.9273,0.9731,0.9815,0.9518,0.9701,0.997,0.2003,0.7867,0.7018,0.4264,0.358,0.292,0.6447,0.1 953,0.769,0.4074,0.9257,0.9352,0.5151,0.8433,0.6491,0.4271,0.5819,0.9295,0.1969,0.956,0.1325,0.3211,0.3025,0.4095,0. 3302,0.2206,0.3005,0.24,0.1386,0.1616,0.3202,0.3146,0.4069,0.2836,0.2314) > x18 <-

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 $\begin{array}{c} c(0.9611, 0.9325, 0.9987, 0.4572, 0.4267, 0.3424, 0.6358, 0.4822, 0.6433, 0.7287, 0.4857, 0.3318, 0.2074, 0.8371, 0.5231, 0.4422, 0.3733, 0.3028, 0.6757, 0.3636, 0.7856, 0.1853, 0.7476, 0.684, 0.239, 0.354, 0.3184, 0.661, 0.2431, 0.6065, 0.1516, 0.7367, 0.6294, 0.1483, 0.3305, 0.3215, 0.1216, 0.1995, 0.4908, 0.9809, 0.9283, 0.9717, 0.9612, 0.8697, 0.9694, 0.9881, 0.9129, 0.8685, 0.5808, 0.9495, 0.9474, 0.664, 0.8098, 0.5023, 0.9697, 0.7087, 0.979, 0.638, 0.2551, 0.2761, 0.2785, 0.1389, 0.8888, 0.7475, 0.1037, 0.8166, 0.7086, 0.9432, 0.9946, 0.8835, 0.9368, 0.8348, 0.9735, 0.8871, 0.9991, 0.9941, 0.9492, 0.9894, 0.9715, 0.8866, 0.9784, 0.9957, 0.9586, 0.8647, 0.1736, 0.8037, 0.9712, 0.6186, 0.7421, 0.6407, 0.5059, 0.5612, 0.9939, 0.4488, 0.7177, 0.8587, 0.6046, 0.6273, 0.5219, 0.7774, 0.4383, 0.7835, 0.7246, 0.9511, 0.9655, 0.8613, 0.8497, 0.7098, 0.9369, 0.8764, 0.9907, 0.806, 0.4902, 0.2451, 0.1933, 0.1536, 0.1154, 0.6664, 0.1789, 0.593, 0.208, 0.8132, 0.7045, 0.4491, 0.4304, 0.2706, 0.5003, 0.6762, 0.8561, 0.9211, 0.9926, 0.9848, 0.869, 0.9263, 0.8958, 0.9271, 0.9358, 0.9948, 0.2242, 0.772, 0.7013, 0.3906, 0.3446, 0.3016, 0.707, 0.2196, 0.739, 0.1389, 0.948, 0.1288, 0.2086, 0.2119, 0.3118, 0.1928, 0.1329, 0.2613, 0.848, 0.52, 0.2646, 0.1597, 0.1559, 0.923, 0.1874, 0.5246, 0.2514, 0.6504, 0.636, 0.25$ 

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1938,0.1883,0.5878,0.6692,0.4519,0.2532,0.2022,0.4499,0.3045,0.8881,0.2532,0.1462,0.2554)
> x112 <-

c(0.3035, 0.3193, 0.5087, 0.2555, 0.2224, 0.4008, 0.2476, 0.6717, 0.8454, 0.456, 0.4942, 0.2305, 0.894, 0.5618, 0.9693, 0.66, 0.223, 0.894, 0.2476, 0.894, 0.2476, 0.8940.2364, 0.1717, 0.1106, 0.846, 0.6921, 0.1145, 0.7078, 0.1275, 0.2097, 0.3739, 0.3436, 0.2094, 0.1233, 0.6463, 0.4279, 0.9046, 0.8902,0.5237,0.7646,0.849,0.8187,0.8672,0.9843,0.751,0.6903,0.9309,0.6111,0.8578,0.9496,0.8381,0.9249,0.99,0.8648,0.7825 , 0.4836, 0.9598, 0.9209, 0.6232, 0.6149, 0.5802, 0.6449, 0.4906, 0.9189, 0.504, 0.5562, 0.4397, 0.5194, 0.4663, 0.6017, 0.7963, 0.3888, 0.388, 0.388, 0.388, 0.388, 0.388, 0.388, 0.388, 0.388, 0.388, 0.388, 0.388, 0.388, 0.345,0.6258,0.76,0.4086,0.2053,0.1731,0.907,0.976,0.1345,0.1168,0.4345,0.2643,0.188,0.3154,0.1772,0.2566,0.323,0.6157, 0.1623, 0.3009, 0.797, 0.3566, 0.1437, 0.1728, 0.1012, 0.1126, 0.1855, 0.1193, 0.3413, 0.1971, 0.8459, 0.6436, 0.4598, 0.3426, 0.2788, 0.3426, 0.2788, 0.3426, 0.2788, 0.3426, 0.3429, 0.1753, 0.5605, 0.8375, 0.4689, 0.858, 0.8576, 0.624, 0.442, 0.4591, 0.9485, 0.336, 0.8477, 0.719, 0.339, 0.1089, 0.1678, 0.712, 0.2013,862, 0.2742, 0.905, 0.2578, 0.8335, 0.3689, 0.8114, 0.5084, 0.4168, 0.5807, 0.9876, 0.4947, 0.4572, 0.964, 0.5347, 0.1856, 0.3406, 0885,0.955,0.6025,0.1032,0.5306,0.708,0.3501,0.881,0.1629,0.649,0.843,0.3759,0.786,0.2746,0.1133,0.6477,0.2292,0.3407 0.1372, 0.1218, 0.5046, 0.1741, 0.5885, 0.2281, 0.5908, 0.9189, 0.5951, 0.3454, 0.8105, 0.4931, 0.9853, 0.4195, 0.2148, 0.5046, 0.1041, 0.10.067,0.2668,0.3491,0.4683,0.9565,0.2305,0.3699,0.969,0.4772,0.1671,0.2692,0.944,0.981,0.5088,0.1088,0.4403,0.1172,0.4 099, 0.874, 0.4515, 0.3848, 0.221, 0.873, 0.2526, 0.9798, 0.4048, 0.7528, 0.9702, 0.7045, 0.7233, 0.5174, 0.8711, 0.7178, 0.9885, 0.2 57,0.1764,0.2081,0.3506,0.3355,0.4802,0.518,0.2647,0.3259,0.92,0.6772,0.2357,0.244,0.12,0.1026,0.1275,0.1508,0.4692, 0.2707,0.8407,0.6519,0.3365,0.4206,0.3999,0.1431,0.2907,0.6025,0.851,0.671,0.3662,0.2248,0.1577,0.1499,0.154,0.2407, 0.7129, 0.4254, 0.414, 0.3982, 0.4226, 0.4355, 0.5644, 0.6659, 0.314, 0.5161, 0.7512, 0.5707, 0.7161, 0.7537, 0.6601, 0.8137, 0.9035,0.6058,0.9809,0.9048,0.9698,0.9657,0.8657,0.9752,0.9856,0.9213,0.8592,0.2662,0.6644,0.8305,0.5639,0.483,0.25,0.8694  $\emptyset$ . 496,  $\emptyset$ . 9705,  $\emptyset$ . 104,  $\emptyset$ . 4827,  $\emptyset$ . 3059,  $\emptyset$ . 223,  $\emptyset$ . 1721,  $\emptyset$ . 1466,  $\emptyset$ . 1524,  $\emptyset$ . 2356,  $\emptyset$ . 486,  $\emptyset$ . 805,  $\emptyset$ . 4333,  $\emptyset$ . 1908,  $\emptyset$ . 1438,  $\emptyset$ . 1222,  $\emptyset$ . 1113,  $\emptyset$ . 0.1324,0.1523,0.4103,0.9557,0.5623,0.8937,0.9351,0.8105,0.9366,0.9922)

> x113 <-

 $\begin{array}{l} c(0.8763, 0.6629, 0.233, 0.5902, 0.8296, 0.5054, 0.4178, 0.2381, 0.8376, 0.5596, 0.9734, 0.7542, 0.9566, 0.9964, 0.8873, 0.9474, 0.8875, 0.98814, 0.917, 0.9993, 0.982, 0.8002, 0.9761, 0.9047, 0.6976, 0.8896, 0.9933, 0.8881, 0.6883, 0.1604, 0.7484, 0.96, 0.5944, 0.6676, 0.8896, 0.9933, 0.8881, 0.6883, 0.1604, 0.7484, 0.96, 0.5944, 0.6678, 0.4986, 0.501, 0.5215, 0.9889, 0.6927, 0.9514, 0.98, 0.8453, 0.8766, 0.7767, 0.9048, 0.8629, 0.9904, 0.794, 0.5007, 0.3444, 0.2071, 0.21, 0.1618, 0.1637, 0.2683, 0.5515, 0.597, 0.2367, 0.2049, 0.1465, 0.111, 0.929, 0.4934, 0.99, 0.7504, 0.898, 0.9855, 0.9864, 0.847, 0.9204, 0.9399, 0.887, 0.9382, 0.9946, 0.711, 0.2813, 0.2175, 0.1083, 0.1135, 0.1088, 0.1273, 0.1701, 0.4295, 0.2089, 0.6948, 0.74, 0.3193, 0.4158, 0.3794, 0.4482, 0.243, 0.6752) \end{array}$ 

> x1 <- c(x10,x11,x12,x13,x14,x15,x16,x17,x18,x19,x110,x111,x112,x113)

> x20 <-

 $c(\emptyset.1264, \emptyset.1539, \emptyset.2924, \emptyset.1999, \emptyset.545, \emptyset.1188, \emptyset.1238, \emptyset.805, \emptyset.1177, \emptyset.919, \emptyset.207, \emptyset.142, \emptyset.1369, \emptyset.4978, \emptyset.4347, \emptyset.5066, \emptyset.6911, \emptyset.1244, \emptyset.1244,$ 0.2244,0.923,0.1485,0.1612,0.1771,0.1904,0.1772,0.1396,0.1227,0.1146,0.1482,0.3236,0.2173,0.2512,0.1701,0.1324,0.1396,0.1318,0.174,0.797,0.2418,0.7731,0.1057,0.155,0.3023,0.3222,0.7062,0.7686,0.2802,0.8746,0.1504,0.1076,0.162,0.5027 , ó.2199, ó.778, ó.6271, o.3252, o.1638, o.13, o.1546, ó.1309, o.3525, o.4307, o.2376, o.5671, o.5414, o.3579, o.2057, o.1943, o.425, 0.1736,0.1551,0.911,0.1901,0.1256,0.38,0.1149,0.3487,0.1142,0.1035,0.1115,0.96,0.1161,0.1194,0.1008,0.3175,0.1337,0. 1669, 0.2424, 0.1618, 0.1021, 0.1286, 0.1722, 0.2726, 0.1966, 0.1018, 0.1022, 0.107, 0.1305, 0.1194, 0.678, 0.2979, 0.6252, 0.7152, 0.2018, 0.1018,.1347, 0.505, 0.811, 0.3117, 0.1074, 0.1465, 0.5248, 0.338, 0.8003, 0.4122, 0.2867, 0.7881, 0.1545, 0.5291, 0.1275, 0.2887, 0.5442, 0.1247,.3065, 0.218, 0.1719, 0.1051, 0.1478, 0.2195, 0.1031, 0.3421, 0.1735, 0.1273, 0.1472, 0.1757, 0.1677, 0.5175, 0.4429, 0.827, 0.6429, 0.827, 0.0.7313, 0.9037, 0.9836, 0.2676, 0.1672, 0.5139, 0.9146, 0.6344, 0.137, 0.2207, 0.1289, 0.1908, 0.1464, 0.9719, 0.3092, 0.2436, 0.819, 0.1464, 0.9719, 0.1464, 0.9719, 0.1464, 0.9719, 0.1464, 0.9719, 0.14641,0.3242,0.6967,0.9976,0.9139,0.1068,0.103,0.878,0.3233,0.8847,0.9969,0.2762,0.874,0.1398,0.4429,0.1371,0.5518,0.139 2,0.4925,0.2046,0.5288,0.1826,0.3631,0.1235,0.2792,0.979,0.4921,0.4305,0.1296,0.4632,0.9777,0.7612,0.4291,0.2221,0.2 596,0.1317,0.1502,0.1219,0.1121,0.9954,0.7372,0.8971,0.9281,0.866,0.1239,0.9047,0.8189,0.9646,0.2133,0.132,0.1764,0. 4569,0.912,0.2829,0.2376,0.1332,0.476,0.2046,0.3461,0.6307,0.2118,0.6887,0.2865,0.1516,0.807,0.2449,0.3365,0.951,0.6 413, 0.239, 0.6206, 0.9427, 0.4008, 0.783, 0.2267, 0.224, 0.1468, 0.9935, 0.92, 0.1798, 0.3444, 0.5039, 0.6121, 0.1759, 0.2962, 0.390 5, 0.9729, 0.9307, 0.1098, 0.1605, 0.1021, 0.3202, 0.956, 0.3965, 0.8525, 0.1782, 0.9949, 0.1227, 0.823, 0.1603, 0.1326, 0.1107, 0.46 63.0.8915,0.9971,0.2245,0.9786,0.9976,0.6752,0.9034,0.9941,0.1162,0.3744,0.999,0.1116,0.1814,0.1019,0.978,0.104,0.11 07, 0.1759, 0.9858, 0.448, 0.7447, 0.8394, 0.1122, 0.1462, 0.1473, 0.132, 0.7256, 0.566, 0.1416, 0.9745, 0.1005, 0.7479, 0.1658, 0.1005, 0.1473, 0.122, 0.1473, 0.132, 0.7256, 0.566, 0.1416, 0.9745, 0.1005, 0.7479, 0.1658, 0.1005, 0.1473, 0.122, 0.1473, 0.132, 0.7256, 0.566, 0.1416, 0.9745, 0.1005, 0.7479, 0.1658, 0.1005, 0.1473, 0.122, 0.1473, 0.132, 0.1473, 0.132, 0.1473, 0.132, 0.1473, 0.14753,0.884,0.708,0.2171,0.7717,0.1137,0.708,0.1348,0.2767,0.944,0.5377,0.2142)

> x21 <-

 $\begin{array}{l} c(0.211, 0.7005, 0.9573, 0.4981, 0.801, 0.3239, 0.7446, 0.2057, 0.859, 0.838, 0.8837, 0.122, 0.1791, 0.1122, 0.1234, 0.5443, 0.2365, \\ 0.607, 0.1788, 0.9374, 0.9088, 0.1407, 0.984, 0.938, 0.5035, 0.809, 0.1645, 0.1629, 0.9085, 0.651, 0.225, 0.8685, 0.924, 0.988, 0.954, 0.988, 0.954, 0.988, 0.98$ 

```
, 0.4757, 0.1508, 0.1527, 0.2636, 0.2878, 0.1543, 0.9795, 0.1279, 0.8781, 0.2811, 0.977, 0.2352, 0.8515, 0.9816, 0.1365, 0.838, 0.259, 0.2151, 0.3722, 0.1016, 0.2302, 0.1587, 0.348, 0.1455, 0.1928, 0.1711, 0.88, 0.904, 0.1, 0.1094, 0.9763, 0.5028, 0.599, 0.6784, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.904, 0.9
7,0.794,0.91,0.2647,0.767,0.6248,0.3551,0.9642,0.353,0.1275,0.2618,0.7589,0.1434,0.872,0.715,0.994,0.2724,0.1911,0.5 506,0.3578,0.5411,0.1681,0.6251,0.953,0.1464,0.8244,0.2253,0.789,0.6466,0.971,0.4618,0.1094,0.8001,0.1497,0.6792,0.1
248,0.2335,0.3209,0.1369,0.131,0.72,0.1178,0.6736,0.3178,0.848,0.981,0.907,0.689,0.193,0.6994,0.881,0.1052,0.4796,0.
8967, 0.853, 0.1568, 0.1704, 0.3143, 0.1047, 0.1309, 0.3431, 0.7398, 0.3591, 0.1844, 0.1408, 0.7752, 0.9869, 0.65, 0.8492, 0.9752, 0.9869, 0.65, 0.8492, 0.9752, 0.9869, 0.65, 0.8492, 0.9752, 0.9869, 0.65, 0.8492, 0.9752, 0.9869, 0.65, 0.8492, 0.9752, 0.9869, 0.65, 0.8492, 0.9752, 0.9869, 0.65, 0.8492, 0.9752, 0.9869, 0.65, 0.8492, 0.9752, 0.9869, 0.65, 0.8492, 0.9752, 0.9869, 0.65, 0.8492, 0.9752, 0.9869, 0.65, 0.8492, 0.9752, 0.9869, 0.65, 0.8492, 0.9752, 0.9869, 0.65, 0.8492, 0.9752, 0.9869, 0.65, 0.8492, 0.9752, 0.9869, 0.65, 0.8492, 0.9752, 0.9869, 0.65, 0.8492, 0.9752, 0.9869, 0.8492, 0.9752, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869, 0.9869,
4065,0.1295,0.9844,0.2191,0.1872)
> x2 <- c(x20,x21)
> ks.test(x1, x2, alternative = "two.sided", exact=FALSE)
                  Asymptotic two-sample Kolmogorov-Smirnov test
data: x1 and x2
D = 0.26275, p-value < 2.2e-16
alternative hypothesis: two-sided
Warning message:
In ks.test.default(x1, x2, alternative = "two.sided", exact = FALSE) :
   p-value will be approximate in the presence of ties
> # Create data frames for plotting
> df_qty <- data.frame(AlphaMissenseScore = x1, Group = " Other Nonpolar")</pre>
> df_other <- data.frame(AlphaMissenseScore = x2, Group = " rQTY-code")</pre>
> df <- rbind(df_other, df_qty)</pre>
> # Density Plot
> ggplot(df, aes(x = AlphaMissenseScore, color = Group)) +
                geom_density() +
labs(title = "Density Plot of AlphaMissense Scores",
    x = "AlphaMissense Score",
    y = "Density",
                                      color = "Group") +
              theme_minimal()
```