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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0.2403, 0.24030, 0.24030, 0.24030, 0.24030, 0.24030, 0.24030, 0.24030, 0.24030, 0.24030, 0.24030, 0.24030, 0.24030,17,0.2273,0.8805,0.9148,0.5448,0.8459,0.9285,0.6056,0.8984,0.9696,0.8607,0.6857,0.4916,0.1913,0.5802,0.5369,0.4113,0 .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, $0.928\overset{.}{3}, 0.677\overset{.}{7}, 0.596\overset{.}{,} 0.5899\overset{.}{,} 0.6145\overset{.}{,} 0.5591\overset{.}{,} 0.9886\overset{.}{,} 0.367\overset{.}{7}, 0.833\overset{.}{,} 0.9734\overset{.}{,} 0.6594\overset{.}{,} 0.4946\overset{.}{,} 0.2706\overset{.}{,} 0.9467\overset{.}{,} 0.3921\overset{.}{,} 0.9909\overset{.}{,} 0.6955\overset{.}{,} 0.9088\overset{.}{,} 0.9346\overset{.}{,} 0.5747\overset{.}{,} 0.8743\overset{.}{,} 0.7816\overset{.}{,} 0.9171\overset{.}{,} 0.763\overset{.}{,} 0.7508\overset{.}{,} 0.9828\overset{.}{,} 0.8773\overset{.}{,} 0.9723\overset{.}{,} 0.9535\overset{.}{,} 0.844\overset{.}{,} 0.9557\overset{.}{,} 0.9984\overset{.}{,} 0.923\overset{.}{,} 0.5997\overset{.}{,} 0.9981\overset{.}{,} 0.9991\overset{.}{,} 0.999$, 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, 0.678, 0.2423, 0.2423, 0.678, 0.2423, 0,0.9232,0.8884,0.8861,0.8222,0.9083,0.8065,0.9119,0.9441,0.7592,0.8467,0.1981,0.9184,0.8314,0.2521,0.5406,0.4379,0.1 387,0.3179,0.7896,0.4515,0.5987,0.3456,0.7574,0.5717,0.698,0.5516,0.4535,0.6417,0.2625,0.3836,0.2356,0.5505,0.4372,0 .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, 0.6123, 0.7161, 0.6134, 0.8423, 0.7489, 0.8321, 0.8434, 0.7088, 0.6617, 0.427, 0.975 3, 0.9468, 0.8328, 0.8328, 0.9468, 0.281, 0.9664, 0.9192, 0.2976) > x14 <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, 0.9118, 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, 0.9942, 0.9967, 0.9941, 0.998, 0.9966, 0.999, 0.9942,, 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.464, 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 .4271,0.582,0.467,0.1815,0.1076,0.743,0.85,0.481,0.851,0.3013,0.749,0.4972,0.1473,0.1761,0.812,0.1015,0.2817,0.818,0 .3884,0.2019,0.6719,0.4043,0.6187,0.1705,0.99,0.4795,0.1749,0.7572,0.6497,0.9624,0.97,0.9139,0.8264,0.7431,0.9164,0.6797,0.9908,0.9575,0.9892,0.9997,0.9825,0.9717,0.9826,0.9778,0.9967,0.1041,0.9169,0.8722,0.2361,0.5416,0.4304,0.71,0.2428,0.9555,0.2189,0.2851,0.1496,0.6512,0.4743,0.5061,0.3488,0.334,0.3271,0.2891,0.3698,0.1345,0.7051,0.5001 , 0.5825, 0.385, 0.3963, 0.5247, 0.1546, 0.8724, 0.8124, 0.1165, 0.7898, 0.602, 0.793)> x15 <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, 0.889, 0.899, 0.9116, 0.1389, 0.889, 0.899, 0.9116, 0.1389, 0.889, 0.899, 0.9116, 0.1389, 0.889, 0.899, 0.9116, 0.1389, 0.889, 0.899, 0.9116, 0.1389, 0.889, 0.899, 0.9116, 0.1389, 0.889, 0.9116, 0.1389, 0.9116, 0.1389, 0.9116, 0.1389, 0.9116, 0.91129,0.6346,0.968,0.4736,0.9599,0.6866,0.6644,0.4256,0.8531,0.7197,0.8033,0.6964,0.6271,0.6559,0.2623,0.9535,0.935,0.2 591,0.8419,0.7162,0.1767,0.5397,0.9784,0.4104,0.4676,0.2122,0.7875,0.6236,0.6831,0.5706,0.4806,0.6484,0.1627,0.9021, 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, 0.86, 0.2858, 0.4955, 0.86, 0.2858, 0.4955, 0.86, 0.2858, 0.4955, 0.86, 0.2858, 0.4955, 0.86, 0.2858, 0.4955, 0.86, 0.2858, 0.4955, 0.86, 0.2858, 0.4955, 0.86, 0.2858, 0.4955, 0.86, 0.2858, 0.4955, 0.86, 0.2858, 0.4955, 0.86, 0.2858, 0.4955, 0.86, 0.2858, 0.4955, 0.86, 0.2858, 0.4955, 0.86, 0.2858, 0.4955, 0.86, 0.2858, 0.4955, 0.86, 0.2858, 0.4955, 0.865, 0.2858, 0.4955, 0.865, 0.2858, 0.4955, 0.865, 0.2858, 0.4955, 0.865, 0.2858, 0.4955, 0.865, 0.2858, 0.4955, 0.865, 0.2858, 0.4955, 0.865, 0.2858, 0.4955, 0.865, 0.2858, 0.4955, 0.2858.8365, 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, 0.8282, 0.561, 0.7464, 0.5309, 0.431, 0.3965, 0.8282, 0.561, 0.7464, 0.5309, 0.431, 0.3965, 0.8282, 0.561, 0.7464, 0.5309, 0.431, 0.3965, 0.8282,9088,0.2291,0.3357,0.1191,0.6355,0.4873,0.5073,0.3542,0.3194,0.5124,0.1197,0.9086,0.8902,0.1276,0.7792,0.5924,0.733,0.3977,0.9535,0.4352,0.977,0.9604,0.5105,0.862,0.9151,0.5193,0.8217,0.9935,0.344,0.9816,0.9634,0.4004,0.915,0.8262,0 .2748.0.7187.0.9855) > x1 <- c(x10, x11, x12, x13, x14, x15)c(0.1264, 0.1539, 0.2924, 0.1999, 0.545, 0.1188, 0.1238, 0.805, 0.1177, 0.919, 0.207, 0.142, 0.1369, 0.4978, 0.4347, 0.5066, 0.6911, 0.1264,0.2244, 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, 0.1273, 0.1146, 0.1482, 0.3236, 0.2173, 0.2512, 0.1701, 0.1324, 0.1396, 0.1273, 0.1146, 0.1482, 0.3236, 0.2173, 0.2512, 0.1701, 0.1324, 0.1396, 0.1273, 0.1146, 0.1482, 0.3236, 0.2173, 0.2512, 0.1701, 0.1324, 0.1396, 0.1273, 0.1146, 0.1482, 0.3236, 0.2173, 0.2512, 0.1701, 0.1324, 0.1396, 0.1273, 0.1146, 0.1482, 0.3236, 0.2173, 0.2512, 0.1701, 0.1324, 0.1396, 0.1273, 0.1146, 0.1482, 0.3236, 0.2173, 0.2512, 0.1701, 0.1324, 0.1396, 0.1273, 0.1146, 0.1482, 0.3236, 0.2173, 0.2512, 0.1701, 0.1324, 0.1396, 0.1273, 0.1146, 0.1482, 0.3236, 0.2173, 0.2512, 0.1701, 0.1324, 0.1396, 0.1273, 0.1274, 0.1396, 0.1274, 0.1276, 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, 0.1012, 0.101,0.2199,0.778,0.6271,0.3252,0.1638,0.13,0.1546,0.1309,0.3525,0.4307,0.2376,0.5671,0.5414,0.3579,0.2057,0.1943,0.425, 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, 0.1008, 0.1115, 0.1115, 01669, 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, 0.2016, 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 .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, 0.1757, 0.1677,

0.7313,0.9037,0.9836,0.2676,0.1672,0.5139,0.9146,0.6344,0.137,0.2207,0.1289,0.1908,0.1464,0.9719,0.3092,0.2436,0.8191,0.3242,0.6967,0.9976,0.9139,0.1068,0.103,0.878,0.3233,0.8847,0.9969,0.2762,0.874,0.1398,0.4429,0.1371,0.5518,0.139

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)

Asymptotic two-sample Kolmogorov-Smirnov test

> ks.test(x1, x2, alternative = "two.sided", exact=FALSE)

data: x1 and x2 D = 0.35249, 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")
> df_other <- data.frame(AlphaMissenseScore = x2, Group = " rQTY-code")
> df <- rbind(df_other, df_qty)
>
> # 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()
>
```