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

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

```
> # Load necessary libraries
> library(ggplot2)
>
```

> # Given data

> x10 <-

c(0.1998, 0.7984, 0.9022, 0.1694, 0.7773, 0.6136, 0.1334, 0.4933, 0.81, 0.6674, 0.5471, 0.51, 0.7342, 0.6938, 0.7515, 0.8105, 0.5394, 0.7913, 0.7914, 0.6291, 0.6934, 0.5108, 0.5695, 0.8298, 0.7173, 0.837, 0.8268, 0.592, 0.5959, 0.4094, 0.2439, 0.2666, 0.5741, 0.5003, 0.6586, 0.498, 0.592, 0.5959, 0.4094, 0.24397, 0.4033, 0.373, 0.3201, 0.2025, 0.2045, 0.5595, 0.4012, 0.6651, 0.4224, 0.3262, 0.38, 0.591, 0.2508, 0.1428, 0.665, 0.735, 0.112, 0.6651, 0.4012, 0.6651,588,0.863,0.2824,0.711,0.5034,0.4271,0.835,0.2747,0.2696,0.632,0.1422,0.3899,0.9447,0.9966,0.9958,0.9638,0.9596,0.96 29,0.9617,0.9687,0.9971,0.9941,0.9907,0.9825,0.9879,0.9512,0.9938,0.9886,0.9735,0.9167,0.9988,0.9994,0.9888,0.9963,0 .9883,0.998,0.9983,0.9922,0.9853,0.8634,0.9979,0.9957,0.9031,0.9868,0.9522,0.9683,0.9578,0.9963,0.663,0.6209,0.5102, 0.864, 0.279, 0.3096, 0.834, 0.1297, 0.4315, 0.1632, 0.8517, 0.7305, 0.2261, 0.5231, 0.4265, 0.7709, 0.2502, 0.7832, 0.709, 0.9942, 0.709, 0.2502, 0.709, 0.709, 0.2502, 0.709, 0.9951, 0.7644, 0.9814, 0.9282, 0.9882, 0.9474, 0.9974, 0.9974, 0.9932, 0.9781, 0.9952, 0.956, 0.9918, 0.9981, 0.9779, 0.9493, 0.9177, 0.9981, 0.98820.9944, 0.9956, 0.948, 0.9877, 0.9681, 0.9666, 0.9816, 0.9976, 0.911, 0.3521, 0.2223, 0.1248, 0.1169, 0.1096, 0.6151, 0.1582, 0.4427,0.913,0.5359,0.8511,0.9542,0.6817,0.9131,0.9884,0.855,0.8146,0.9829,0.9068,0.9611,0.9778,0.8729,0.9849,0.9455,0.86 ,0.44,0.8959,0.8755,0.4355,0.7795,0.6969,0.3697,0.5881,0.7769,0.7821,0.998,0.9926,0.825,0.979,0.922,0.6956,0.9402,0. 9914,0.982,0.9805,0.964,0.9782,0.9122,0.9695,0.9765,0.9457,0.8404,0.864,0.592,0.1934,0.2192,0.109,0.1155,0.1579,0.15 42,0.5523,0.9898,0.9083,0.9894,0.9765,0.8888,0.9754,0.9986,0.936,0.7402,0.2608,0.9263,0.957,0.5037,0.8014,0.5735,0.3 183,0.5044,0.9489,0.9791,0.8802,0.9602,0.9589,0.7726,0.9645,0.9967,0.8928,0.8456,0.8318,0.9106,0.7539,0.9557,0.7984, 0.9277, 0.9368, 0.8344, 0.7867, 0.3065, 0.9757, 0.9619, 0.5057, 0.9108, 0.765, 0.6935, 0.744, 0.957, 0.9595, 0.9535, 0.948, 0.9061, 0.7408, 0.9234, 0.9883, 0.8021, 0.6644, 0.6001, 0.9894, 0.9707, 0.8354, 0.9103, 0.8334, 0.8657, 0.7722, 0.9711, 0.801, 0.2141, 0.2304 , 0.1615, 0.1226, 0.11, 0.5772, 0.1721, 0.434, 0.637, 0.2033, 0.1047, 0.1202, 0.72, 0.853, 0.2042, 0.973, 0.2714, 0.2393, 0.4373, 0.554, 0.2042, 0.973, 0.2714, 0.2393, 0.4373, 0.554, 0.2042, 0.973, 0.2714, 0.2393, 0.4373, 0.554, 0.2042, 0.973, 0.2714, 0.2393, 0.4373, 0.554, 0.2042, 0.973, 0.2714, 0.2393, 0.4373, 0.554, 0.2042, 0.973, 0.2714, 0.2393, 0.4373, 0.554, 0.2042, 0.973, 0.2714, 0.2393, 0.4373, 0.254, 0.2042,01,0.6631,0.4037,0.555,0.8217,0.1372,0.785,0.2844,0.8252,0.8225,0.402)

 $\begin{array}{c} c(0.6661, 0.4012, 0.9915, 0.4793, 0.7874, 0.3182, 0.792, 0.6786, 0.758, 0.3249, 0.2631, 0.9906, 0.2307, 0.9011, 0.4817, 0.8776, 0.95 \\ 06, 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, 0.1911, 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, 0.719, 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, 0.9912, 0.6725, 0.9663, 0.8308, 0.9231, 0.9781, 0.9079, 0.9659, 0.9936, 0.931, 0.8371, 0.2768, 0.767, 0.7711, 0.492, 0.3285, 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, 0.6325, 0.9854, 0.3499, 0.1635, 0.1231, 0.7207, 0.152, 0.8564, 0.2288, 0.8344, 0.5591, 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, 0.9925, 0.9957, 0.9529, 0.9362, 0.8737, 0.9983, 0.8698, 0.9855, 0.1799, 0.6325, 0.9633, 0.3816, 0.3004, 0.2294, 0.2643, 0.8456, 0.1576, 0.3933, 0.4568, 0.1535, 0.8262, 0.9236, 0.7573, 0.99444, 0.9992, 0.2814, 0.8908, 0.2828, 0.6666, 0.5277, 0.7438, 0.5014, 0.4296, 0.6617, 0.9908, 0.3933, 0.4568, 0.1535, 0.8307, 0.3147, 0.366, 0.1928, 0.1949, 0.2814, 0.8908, 0.2825, 0.8242, 0.2047, 0.5621, 0.9899, 0.6562, 0.7512, 0.5915, 0.9674, 0.4919, 0.9979, 0.9944, 0.7525, 0.9244, 0.8874, 0.2814, 0.8908, 0.26$

> x12 <- (0.6242,0.9271,0.628,0.5459,0.1864,0.881,0.101,0.1205,0.679,0.1192,0.4062,0.607,0.4527,0.178,0.756,0.952,0.1145,0.6 (63,0.986,0.3869,0.5299,0.6086,0.5232,0.69,0.5333,0.6952,0.7922,0.4502,0.4174,0.9791,0.9655,0.9678,0.9829,0.91,0.9858,0.9851,0.9518,0.8713,0.3744,0.7399,0.8914,0.657,0.7258,0.4716,0.9251,0.6851,0.9781,0.9352,0.9821,0.9986,0.95,0.9792,0.966,0.991,0.9662,0.9995,0.9977,0.9866,0.9951,0.9881,0.9127,0.9908,0.997,0.9803,0.9,0.1899,0.188,0.984,0.2909,0.84 (48,0.7802,0.7787,0.7627,0.9982,0.9429,0.9879,0.996,0.9536,0.9758,0.9734,0.979,0.9668,0.9977,0.1162,0.7333,0.7301,0.1 (58,0.3819,0.2602,0.5523,0.4701,0.8982,0.13,0.7294,0.7236,0.26,0.511,0.3945,0.4246,0.6968,0.8526,0.9697,0.9962,0.9949,0.9273,0.9731,0.9815,0.9518,0.9701,0.997,0.2003,0.7867,0.7018,0.4264,0.358,0.292,0.6447,0.1953,0.769,0.4074,0.9257,0.9352,0.5151,0.8433,0.6491,0.4271,0.5819,0.9295,0.1969,0.956,0.1325,0.3211,0.3025,0.4095,0.3302,0.2206,0.3005,0.24,0.1386,0.1616,0.3202,0.3146,0.4069,0.2836,0.2314,0.3455,0.1465,0.5015,0.5596,0.1303,0.3764,0.356,0.858,0.2421,0.4227,0.1538,0.921,0.1113,0.2871,0.2751,0.3559,0.2676,0.1946,0.279,0.2094,0.1208,0.1583,0.399,0.3145,0.3735,0.3116,0.2,0.

c(0.9966, 0.998, 0.9514, 0.9908, 0.9729, 0.9668, 0.9867, 0.9988, 0.9441, 0.7154, 0.9106, 0.9216, 0.7419, 0.8919, 0.9671, 0.8626, 0.7419, 0.7419, 0.7795,0.6708,0.99,0.9752,0.6966,0.9198,0.84,0.3606,0.829,0.9667,0.9504,0.9041,0.9175,0.9253,0.8343,0.9201,0.9538,0.866 ,0.7352,0.9866,0.861,0.9856,0.9566,0.8318,0.9518,0.9976,0.8933,0.7751,0.687,0.2232,0.1675,0.2296,0.753,0.58,0.477,0. 888,0.7182,0.863,0.502,0.8421,0.7258,0.4456,0.8037,0.9865,0.6006,0.6492,0.7637,0.6831,0.6721,0.8831,0.7321,0.8664,0. 8859,0.7317,0.7136,0.1721,0.8601,0.6952,0.2466,0.4135,0.2862,0.2667,0.5929,0.7804,0.7806,0.604,0.7879,0.4871,0.4603, 0.6923, 0.9564, 0.426, 0.5885, 0.606, 0.2348, 0.1196, 0.2239, 0.67, 0.617, 0.5506, 0.691, 0.6023, 0.2232, 0.4416, 0.5612, 0.2751, 0.3885, 0.606, 0.89,0.2702,0.9388,0.2692,0.4618,0.2125,0.6886,0.496,0.6637,0.2502,0.1674,0.9713,0.2059,0.7901,0.61,0.2221,0.1146,0.24 4,0.743,0.613,0.4946,0.821,0.3701,0.1453,0.6396,0.6377,0.4407,0.2441,0.1422,0.4708,0.349,0.8728,0.1409,0.6931,0.4999 ,0.6092,0.1282,0.832,0.2992,0.1666,0.8676,0.2688,0.8442,0.835,0.438,0.4661,0.4036,0.1622,0.2807,0.7953,0.5485,0.962 9,0.9778,0.6256,0.9295,0.8226,0.5299,0.785,0.9663,0.5937,0.9661,0.977,0.8274,0.8217,0.6929,0.791,0.8338,0.9857,0.191 , 0.7842, 0.6676, 0.481, 0.3079, 0.2212, 0.4327, 0.3675, 0.8761, 0.5098, 0.2259, 0.4357, 0.4562, 0.4253, 0.5653, 0.5993, 0.3552, 0.308, 0.3074, 0.5348, 0.9147, 0.9323, 0.5123, 0.803, 0.6309, 0.8209, 0.5978, 0.8884, 0.2574, 0.8206, 0.7093, 0.3767, 0.3896, 0.2105, 0.871, 0.4896, 0.8896, 0.627,0.901,0.3214,0.8785,0.8847,0.3546,0.5876,0.3983,0.8197,0.3874,0.8734,0.1977,0.1078,0.2325,0.3088,0.2432,0.4275,0 .8031, 0.2212, 0.3466, 0.5657, 0.1855, 0.5612, 0.5388, 0.4023, 0.6059, 0.9033, 0.3932, 0.3428, 0.4659, 0.8522, 0.8665, 0.5346, 0.587, 0.8522, 0.8522, 0.8665, 0.8622, 0.8665, 0.8622, 0.8665, 0.8622, 0.8665, 0.8622, 0.8665, 0.86223,0.4104,0.891,0.7414,0.9769,0.888,0.5531,0.7571,0.8831,0.7966,0.8795,0.9883,0.7886,0.598,0.8582,0.5108,0.7492,0.900 9,0.7722,0.8732,0.9811,0.7914,0.695,0.1366,0.5857,0.4716,0.3536,0.1432,0.1024,0.6245,0.1262,0.8277,0.5626,0.2791,0.6 125,0.4815,0.5117,0.6593,0.9833,0.3995,0.4848,0.6339,0.9728,0.977,0.7014,0.8537,0.7598,0.8833,0.7516,0.9124,0.8996,0.8395,0.8649,0.7581,0.8632,0.99,0.7894,0.6879,0.2028,0.1498,0.2997,0.1625,0.2595) > x14 <-

 $c(\emptyset.3113, \emptyset.7305, \emptyset.1385, \emptyset.2681, \emptyset.1019, \emptyset.6328, \emptyset.2659, \emptyset.3826, \emptyset.1526, \emptyset.1286, \emptyset.3402, \emptyset.1338, \emptyset.6207, \emptyset.4082, \emptyset.939, \emptyset.9268, \emptyset.6207, \emptyset.4082, \emptyset.939, \emptyset.9268, \emptyset.6207, \emptyset.4082, \emptyset.939, \emptyset.9268, \emptyset.6207, \emptyset.4082, \emptyset.939, \emptyset.9$ 553,0.6809,0.5817,0.2769,0.8613,0.9583,0.8818,0.9912,0.9945,0.9582,0.8994,0.845,0.9979,0.8146,0.9974,0.3182,0.5937,0.5861,0.4393,0.2726,0.3465,0.8824,0.2168,0.4926,0.961,0.3661,0.1313,0.2446,0.789,0.917,0.5225,0.1022,0.3522,0.2515,0.1863,0.3339,0.1893,0.2434,0.3478,0.8071,0.1536,0.3396,0.1953,0.3587,0.7757,0.5973,0.3762,0.2387,0.9165,0.3168,0.959 6, 0.4253, 0.2473, 0.5653, 0.2427, 0.2892, 0.4427, 0.9808, 0.2007, 0.3994, 0.1236, 0.6746, 0.2397, 0.417, 0.1443, 0.1272, 0.6799, 0.1236, 0.6746, 0.2397, 0.417, 0.1443, 0.1272, 0.6799, 0.1236, 0.1463, 0.6025, 0.884, 0.5726, 0.2615, 0.2615, 0.127, 0.1087, 0.5161, 0.1382, 0.5345, 0.4516, 0.7606, 0.9843, 0.8163, 0.7733, 0.6507, 0.8163, 0.8163, 0.7733, 0.6507, 0.8163, 09618, 0.7195, 0.9975, 0.3672, 0.206, 0.5531, 0.1662, 0.2722, 0.3578, 0.9668, 0.142, 0.3136, 0.1845, 0.7819, 0.3585, 0.5707, 0.2202, 0.3683, 0.1845, 0.7819, 0.3885, 0.5707, 0.2202, 0.3819,.1656, 0.8348, 0.1841, 0.6703, 0.2118, 0.5732, 0.9856, 0.7075, 0.7939, 0.5809, 0.9533, 0.5451, 0.9975, 0.5344, 0.2419, 0.5868, 0.3388, 0.1841, 0.6703, 0.2118, 0.5732, 0.9856, 0.7075, 0.7939, 0.5809, 0.9533, 0.5451, 0.9975, 0.5344, 0.2419, 0.5868, 0.3388, 0.1841, 0.6703, 0.2118, 0.5732, 0.9856, 0.7075, 0.7075, 0.7079, 0.7075, 0.7071,0.422,0.5676,0.9775,0.2928,0.3745,0.8318,0.9322,0.9972,0.924,0.9455,0.8728,0.9611,0.9325,0.9987,0.4572,0.4267,0.3424,0.6358,0.4822,0.6433,0.7287,0.4857,0.3318,0.2074,0.8371,0.5231,0.4422,0.3733,0.3028,0.6757,0.3636,0.7856,0.1853,0 .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, 0.1995, 09809, 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, 0.888, 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, 0.6487, 0.9894, 0.9807, 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, 0.7835, 0.7855, 0.7855, 0.7855, 0.7855, 0.7855, 0.7855, 0.7855, 0.7855, 0.7855, 0.7855, 0.7855,.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, 0.208, 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, 0.9721,0.7013, 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)

c(0.2613, 0.848, 0.52, 0.2646, 0.1597, 0.152, 0.1559, 0.923, 0.1874, 0.5246, 0.2514, 0.6504, 0.636, 0.2517, 0.4828, 0.409, 0.2967, 0.4828, 0.409, 0.2967, 0.4828, 0.409, 0.2967, 0.4828, 0.409, 0.2967, 0.4828, 0.409, 0.2967, 0.4828, 0.409, 0.2967, 0.4828, 0.409, 0.2967, 0.4828, 0.409, 0.2967, 0.4828, 0.499, 0.2967, 0.4828, 0.499, 0.2967, 0.4828, 0.499, 0.2967, 0.4828, 0.499, 0.2967, 0.4828, 0.499, 0.2967, 0.4828, 0.499, 0.2967, 0.4828, 0.499, 0.2967, 0.4828, 0.499, 0.2967, 0.4828, 0.499, 0.2967, 0.4828, 0.499, 0.2967, 0.4828, 0.499, 0.2967, 0.4828, 0.499, 0.2967, 0.4828, 0.499, 0.2967, 0.4828, 0.499, 0.499, 0.2967, 0.4828, 0.499, 0.499, 0.499, 0.4928, 0.499, 0.499, 0.4928, 0.499, 0.4928, 0.499, 0.4928, 0.499, 0.4928, 0.499, 0.4928, 0.499, 0.4928, 0.499, 0.4928, 0.499, 0.4928, 0.43347,0.4976,0.622,0.5251,0.4309,0.1555,0.2536,0.1593,0.2361,0.2007,0.7049,0.1098,0.339,0.3744,0.1187,0.2392,0.2257,0 .1186, 0.1526, 0.2669, 0.1628, 0.6432, 0.7316, 0.1532, 0.5398, 0.4162, 0.1648, 0.3174, 0.5381, 0.7714, 0.5608, 0.6506, 0.6931, 0.694,7,0.7421,0.919,0.5508,0.6275,0.93,0.4983,0.3814,0.1773,0.1694,0.1632,0.206,0.2147,0.6062,0.1455,0.4363,0.4942,0.1324 ,0.367,0.311,0.1409,0.2252,0.3677,0.6163,0.2997,0.5178,0.7187,0.6336,0.7588,0.7888,0.5035,0.5043,0.1887,0.5831,0.653 3,0.2074,0.3998,0.3638,0.1626,0.2489,0.4679,0.1468,0.806,0.134,0.1912,0.2304,0.3243,0.3078,0.1423,0.2657,0.1257,0.81 3,0.1447,0.1583,0.1615,0.2774,0.2054,0.1175,0.2658,0.634,0.2161,0.1197,0.1024,0.815,0.88,0.694,0.917,0.2713,0.1512,0 .856, 0.1362, 0.2454, 0.2589, 0.3575, 0.2663, 0.1674, 0.2323, 0.8064, 0.9892, 0.9855, 0.9342, 0.8649, 0.7845, 0.9242, 0.8934, 0.9914 ,0.9858,0.9405,0.965,0.9713,0.9159,0.9779,0.9822,0.9404,0.8445,0.9944,0.9881,0.9733,0.9826,0.9554,0.9872,0.9952,0.96 88,0.9477,0.7113,0.9858,0.9869,0.8284,0.9212,0.8143,0.8924,0.8222,0.9867,0.954,0.3369,0.3641,0.1035,0.2,0.2059,0.748 ,0.1301,0.2941,0.1152,0.2566,0.2697,0.1252,0.1465,0.1747,0.848,0.1114,0.2125,0.1448,0.727,0.1266,0.1467,0.1662,0.229 ,0.2007,0.1241,0.208,0.4441,0.8814,0.859,0.4739,0.7198,0.5762,0.8411,0.4968,0.7849,0.7235,0.9892,0.9906,0.8043,0.947 1, 0.846, 0.9685, 0.8861, 0.9918, 0.9967, 0.9814, 0.9871, 0.9902, 0.9524, 0.9848, 0.9989, 0.9715, 0.9275, 0.4109, 0.8938, 0.9578, 0.44109, 0.8938, 0.9878, 0.9878, 0.9878, 0.9878, 0.9878, 0.9878, 0.9878, 0.44109, 0.8938, 0.9878, 0.44109, 0.8938, 0.98780, 0.98780, 0.98780, 0.98780, 0.98780, 0.98780, 0.98780, 0.98780, 0.98780, 0.98780, 0.98780, 0.98780,754,0.7853,0.5938,0.9572,0.5634,0.9018,0.9312,0.995,0.9973,0.9491,0.9875,0.9654,0.9571,0.9807,0.9985,0.1159,0.7735,0 .5631, 0.3673, 0.1768, 0.1162, 0.4903, 0.2461, 0.7574, 0.9639, 0.7637, 0.9355, 0.9358, 0.7493, 0.9025, 0.9819, 0.8834, 0.8137, 0.343, 0.9639, 0.9649, 0.9649, 0.9640, 0.9640, 0.9640, 0.9640, 0.9640, 0.9640, 0.9640, 0.9640, 0.96405,0.8027,0.7717,0.3779,0.5217,0.4695,0.2845,0.3693,0.6542,0.6714,0.9933,0.982,0.717,0.9372,0.8513,0.4373,0.847,0.9783,0.8899,0.776,0.8235,0.8642,0.7175,0.8537,0.9166,0.7681,0.6557,0.595,0.3035,0.6211,0.3472,0.1235,0.1032,0.3462,0.6659,0.8642,0.769,0.769,0.7,0.9524,0.9773,0.7495,0.9717,0.9278,0.7956,0.9337,0.9977,0.8588,0.7043,0.9392,0.6443)

C(0.911,0.8909,0.6493,0.9045,0.995,0.7895,0.7276,0.8325,0.7919,0.7229,0.9302,0.7547,0.9003,0.9325,0.8021,0.754,0.966 9,0.9223,0.9522,0.9125,0.7376,0.9207,0.9899,0.8157,0.7186,0.5226,0.9742,0.9531,0.759,0.8244,0.7328,0.7873,0.6402,0.9 451,0.1413,0.4289,0.3432,0.3521,0.1678,0.1343,0.5507,0.2399,0.6761,0.2702,0.8069,0.7129,0.6705,0.4391,0.258,0.9746,0.3926,0.8713,0.3118,0.6834,0.5594,0.6587,0.3907,0.2895,0.9185,0.2518,0.6521,0.1529,0.61,0.6764,0.4054,0.31,0.1878,0.5477,0.4154,0.8673,0.1096,0.4907,0.2666,0.475,0.777,0.599,0.2296,0.932,0.6533,0.2309,0.7151,0.6964,0.3701,0.3403,0.2 951,0.1458,0.2157,0.6296,0.3449,0.8808,0.8973,0.5945,0.5771,0.3645,0.6205,0.6349,0.952,0.988,0.4422,0.2882,0.241,0.1 488,0.1216,0.1782,0.1657,0.5456,0.2911,0.1135,0.26,0.2396,0.267,0.3693,0.3205,0.2013,0.2105,0.1518,0.6742,0.6448,0.3 104,0.3131,0.1725,0.8538,0.3928,0.8106,0.1334,0.757,0.1195,0.2147,0.169,0.2849,0.6212,0.158,0.1938,0.1883,0.5878,0.6 692,0.4519,0.2532,0.2022,0.4499,0.3045,0.881,0.2532,0.1462,0.2554,0.3035,0.3193,0.5087,0.2555,0.2224,0.4008,0.2476,0.6717,0.8454,0.456,0.4942,0.2305,0.894,0.5618,0.9693,0.66,0.223,0.2364,0.1717,0.1106,0.846,0.6921,0.1145,0.7078,0.1

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275,0.2097,0.3739,0.3436,0.2094,0.1233,0.6463,0.4279,0.9046,0.8902,0.5237,0.7646,0.849,0.8187,0.8672,0.9843,0.751,0.
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  175,0.1083,0.1135,0.1088,0.1273,0.1701,0.4295,0.2089,0.6948,0.74,0.3193,0.4158,0.3794,0.4482,0.243,0.6752)
> x1 <- c(x10,x11,x12,x13,x14,x15,x16,x17)
 > x2 <-
  c(\emptyset.4291, 0.2221, 0.2596, 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, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.239, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646, 0.9646,
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 19,0.978,0.104,0.1107,0.1759,0.9858,0.448,0.7447,0.8394,0.1122,0.1462,0.1473,0.132,0.7256,0.566,0.1416,0.9745,0.1002,0.7479,0.1658,0.1053,0.884,0.708,0.2171,0.7717,0.1137,0.708,0.1348,0.2767,0.944,0.5377,0.2142,0.211,0.7005,0.9573,0
      .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, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.93744, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0.9374, 0
 088, 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, 0.4757, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1508, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527, 0.1527,
     .2636,0.2878,0.1543,0.9795,0.1279,0.8781,0.2811,0.977,0.2352,0.8515,0.9816,0.1365,0.838,0.2596,0.2151,0.3722,0.1016,
  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, 0.97, 0.794, 0.91, 0.2647, 0.794, 0.91, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.910, 0.9
 67, 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, 0.5506, 0.3578, 0.5411, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168, 0.168
  1,0.6251,0.953,0.1464,0.8244,0.2253,0.789,0.6466,0.971,0.4618,0.1094,0.8001,0.1497,0.6792,0.1248,0.2335,0.3209,0.136
 9,0.131,0.72,0.1178,0.6736,0.3178,0.848,0.981,0.907,0.689,0.193,0.6994,0.881,0.1052,0.4796,0.8967,0.853,0.1568,0.170
 4,0.3143,0.1047,0.1309,0.3431,0.7398,0.3591,0.1844,0.1408,0.7752,0.9869,0.65,0.8492,0.9752,0.4065,0.1295,0.9844,0.21
91,0.1872)
 > ks.test(x1, x2, alternative = "two.sided", exact=FALSE)
                                Asymptotic two-sample Kolmogorov-Smirnov test
data: x1 and x2
D = 0.21646, p-value = 6.017e-10
alternative hypothesis: two-sided
 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

geom_density() +

theme_minimal()

ggplot(df, aes(x = AlphaMissenseScore, color = Group)) +

labs(title = "Density Plot of AlphaMissense Scores",

x = "AlphaMissense Score",
y = "Density",

color = "Group") +