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

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  Natural language support but running in an English locale

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

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

> rm(list = ls())
>
> A <- c(0, 0, 0, 0, 28.889, 0, 0, 3.333, 15.152, 10.000, 3.896, 7.500, 2.439, 0, 10.976, 0, 3.571, 11.905, 2.198,
17.143, 3.448, 1.695, 4.651, 0, 0.725, 2.174, 1.439, 15.714, 0, 3.546, 77.622, 6.897, 0, 21.918, 1.370, 0, 0, 0, 0.685,
0.680, 0, 0, 19.048, 0, 0.680, 0.680, 0, 0, 3.401, 2.041, 0, 0, 0, 0.680, 0, 0, 1.351, 0, 5.405, 0.676, 0, 0, 32.653,
8.108, 0.676, 0, 0, 1.351, 0, 1.351, 2.703, 0, 0, 0.676, 0, 0, 0, 0, 6.757, 0, 0, 1.351, 2.027, 0.676, 1.351, 0, 0.671,
0.671, 3.356, 77.852, 0, 0.671, 0.671, 0, 2.013, 0, 0, 2.685, 0.671, 0, 0.671, 0, 8.725, 2.703, 0, 2.013, 2.013, 0.671,
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2.013, 0.671, 12.752, 0, 0, 8.054, 0, 0.671, 0, 0, 0.671, 0.671, 0, 2.013, 0, 0, 4.730, 2.027, 0, 0, 0, 2.027, 3.378,
0, 0, 0, 3.378, 0, 0, 0, 0, 20.805, 3.356, 0.671, 0, 10.135, 0, 0, 0, 13.423, 0, 2.013, 2.685, 0, 0, 0, 0.671, 0.671,
0, 0.671, 2.013, 4.698, 0.671, 1.342, 0, 2.013, 0.671, 0, 0, 8.054, 5.369, 0, 0, 0, 2.667, 2.000, 0, 2.667, 0.680, 0,
0, 0, 17.333, 6.667, 1.333, 1.361, 0, 1.342, 8.966, 2.778, 2.564, 1.266, 1.361, 3.448, 14.765, 0.667, 24.667, 3.333, 0,
0, 0, 0, 0, 0.667, 0, 14.667, 0, 0, 0.667, 0, 0, 0, 0, 0, 0.667, 0, 1.333, 8.667, 5.333, 1.333, 22.667, 0.667,
1.333, 0, 0, 2.667, 90.000, 0, 1.333, 0.667, 0, 0.667, 0, 14.667, 4.667, 0, 0, 0, 9.333, 1.000, 0, 0.676, 0, 0, 6.081,
0.676, 0, 2.027, 0, 3.333, 0, 0, 2.000, 0, 0, 0, 0.667, 0.667, 0, 0, 39.333, 2.667, 0, 40.000, 2.000, 0, 6.667, 0,
2.000, 5.333, 0, 0, 0.667, 0.667, 0, 5.333, 0, 0, 0, 40.268, 0, 1.333, 0, 16.667, 0, 0, 0.667, 7.383, 0, 1.342, 2.000,
18.792, 5.369, 3.356, 0, 0, 0, 28.188, 0.671, 0, 1.342, 0, 0)
> D <- c(4.762, 0, 0, 0, 2.222, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 2.586, 0, 0, 0, 0.725, 0, 15.108, 7.857,
4.286, 0, 0, 6.207, 0, 3.425, 3.425, 0, 0, 0, 3.425, 14.966, 0, 0, 2.041, 0, 0, 0, 29.252, 0, 0, 1.361, 0, 14.966, 0,
8.163, 1.361, 0, 0.676, 0, 0, 0, 0, 2.721, 0.680, 1.351, 0, 0, 0.676, 9.459, 0, 9.459, 4.054, 0, 0, 0.676, 0, 39.865,
0, 1.351, 0, 0, 1.351, 0, 0.676, 0, 0, 0, 8.054, 2.685, 9.396, 0, 0, 0, 0, 0, 0, 1.342, 0, 0, 0, 0, 54.362, 0, 8.725,
11.486, 0, 0, 5.369, 8.054, 0, 0, 37.584, 0, 47.651, 0, 0, 0.671, 0.671, 0, 0.671, 1.342, 0, 0, 2.013, 0, 4.698, 0,
26.174, 0.671, 0, 6.711, 0, 10.067, 55.705, 0, 0, 0, 0, 26.846, 22.819, 0, 0, 0, 26.174, 0, 0.671, 0, 0, 0, 0.676, 0,
72.297, 0, 1.351, 1.351, 0, 2.027, 0, 0.676, 0, 0, 0, 0, 0.671, 0, 0, 0, 0, 3.356, 0, 1.342, 6.040, 0, 2.013, 4.027, 0,
40.268, 0, 0, 0, 0, 2.013, 0, 14.765, 0, 0, 0, 1.342, 8.054, 64.430, 0, 2.685, 0, 0, 0, 1.333, 0, 2.000, 0, 0, 0, 0,
6.667, 0, 9.333, 7.333, 0, 0.680, 0, 0, 11.034, 0.694, 2.564, 6.329, 16.327, 18.621, 56.376, 0, 6.667, 1.333, 0, 0, 0,
0, 0, 0, 8.000, 0, 0, 0, 10.000, 0.667, 0, 94.667, 0, 0.667, 6.667, 0.667, 0, 0, 4.000, 0.667, 36.000, 0, 0, 0, 2.000,
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0.667, 73.333, 0, 91.333, 0.667, 23.333, 0, 0, 1.333, 6.000, 0, 0, 8.667, 0, 11.333, 0, 1.333, 0, 0, 93.333, 0, 0,
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0, 0, 0.671)
> F <- c(0, 0, 0, 4.545, 0, 8.511, 0, 5.000, 0, 25.714, 7.792, 3.750, 9.756, 19.512, 4.878, 0, 0, 1.190, 6.593, 0,
27.586, 0, 0, 0, 5.072, 3.623, 0.719, 0, 0, 2.837, 0, 8.276, 4.828, 3.425, 41.096, 0, 0.685, 2.055, 0, 0, 0, 0, 0.680,
0, 0.680, 0, 0, 0, 0, 1.361, 3.401, 20.408, 0, 0, 39.456, 0, 6.757, 0, 0, 0, 0.676, 0, 0, 0, 0.676, 64.189, 0, 10.811,
2.703, 0, 0, 0, 4.054, 1.351, 0, 1.351, 1.351, 0, 0, 0, 18.919, 0, 6.757, 2.027, 1.351, 0, 0, 0, 0, 0, 100.000, 0, 0,
0, 0, 0, 0, 0, 0.671, 0, 0, 0, 0, 20.270, 0, 0.671, 2.013, 0, 12.752, 0, 0, 0, 0, 0, 97.315, 0, 0, 0, 16.107, 0, 0,
7.383, 0.671, 0.671, 14.765, 0, 38.926, 2.685, 0, 0.671, 4.027, 0, 0, 0, 0.671, 0, 0, 0, 0, 8.054, 40.940, 0, 0, 1.342,
2.013, 0.676, 0, 0, 2.027, 0, 0, 0, 28.378, 4.730, 0, 0, 0, 0, 0, 0.671, 0, 2.685, 0, 0, 48.322, 99.329, 0.676, 0, 0,
0.671, 2.013, 27.517, 0, 2.013, 0, 0, 13.423, 0.671, 16.779, 0, 0.671, 0, 2.013, 0, 13.423, 0, 0, 0, 0, 0.671, 4.698,
0, 81.879, 0, 0, 0, 1.333, 83.333, 0, 31.293, 38.667, 0, 2.000, 0, 0.667, 0, 1.361, 7.483, 7.383, 2.069, 0, 14.103, 0,
0.680, 0.690, 0, 0.667, 0.667, 0, 0, 0, 0, 0, 93.333, 0, 0, 0.667, 1.333, 60.667, 0, 0.667, 0, 0, 0.667, 0, 0.667, 0,
0, 39.333, 0, 0, 0, 0, 1.333, 0, 1.333, 88.000, 55.333, 0, 0, 0, 0, 0, 0.667, 0, 0.667, 6.000, 4.000, 0, 0.667, 26.000,
0, 4.000, 0, 0, 0, 0, 0, 0, 0, 87.838, 0.676, 70.548, 0.667, 0, 10.667, 0, 0, 0, 0, 0, 4.667, 0.667, 96.667, 0, 0, 0,
0.667, 0, 0, 1.333, 0, 0.667, 7.333, 18.667, 0, 0.667, 0, 0, 0, 27.333, 0, 96.667, 0.671, 0, 0, 6.000, 2.667, 6.000,
94.000, 0, 0, 4.000, 0, 0.667, 0, 0.671, 4.027, 0, 0, 0, 14.765, 2.685, 0, 0.671, 0, 0)
> I <- c(0, 0, 2.273, 0, 4.444, 4.255, 1.818, 1.667, 12.121, 7.143, 35.065, 1.250, 18.293, 4.878, 6.098, 0, 5.952,
3.571, 0, 0, 16.379, 0, 0.775, 0, 6.522, 30.435, 2.158, 0, 0.714, 24.823, 0, 9.655, 0, 5.479, 0, 0, 0, 0, 0, 0, 24.490,
0, 2.041, 1.361, 0, 0.680, 0, 49.660, 5.442, 4.082, 0, 2.041, 0, 0.680, 0.680, 0, 0, 100.000, 0, 0, 42.568, 0, 0, 0, 0,
0, 0, 0.676, 0, 0, 0, 0, 0.676, 10.135, 0, 2.703, 27.703, 0, 0, 0, 0, 1.351, 0.676, 0, 8.108, 87.162, 0, 0, 0, 0, 0,
4.698, 0, 0, 0, 0, 0.671, 9.396, 24.832, 0, 2.685, 2.685, 0, 0, 0, 10.738, 34.899, 2.013, 3.356, 6.711, 0, 0, 0, 0, 0,
1.342, 0, 0, 2.685, 0, 0.671, 3.356, 15.436, 0, 4.027, 0.671, 0, 0, 0, 0, 0.671, 0, 0, 1.342, 81.208, 0, 0, 0, 0,
0.671, 0, 0, 0, 0, 8.054, 0, 0, 0, 1.351, 0.676, 1.351, 0.676, 0, 3.378, 0, 0, 91.892, 0, 0.676, 14.094, 0, 0, 0,
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5.369, 35.570, 0, 0, 0.671, 0, 0, 2.013, 0, 0, 0, 0.667, 0, 0, 2.000, 0.667, 5.442, 1.333, 4.667, 2.667, 0, 0, 10.000,
0, 0.680, 0.671, 4.828, 1.389, 0, 0, 3.401, 1.379, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1.333, 0, 41.333, 0.667, 10.667, 1.333,
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9.333, 0, 2.000, 8.000, 0, 0.667, 2.000, 0.667, 0, 0, 4.667, 0.667, 14.000, 6.000, 0, 0, 0, 0, 0, 1.333, 87.333, 0, 0,
0, 0, 89.333, 2.667, 2.000, 4.000, 44.667, 4.000, 0, 0, 0, 27.027, 14.189, 0, 0.676, 0, 0.676, 0, 0, 0, 0.667, 14.667,
0.667, 0, 0, 0, 2.000, 0, 0.667, 0, 0.667, 0, 0, 0.667, 0.667, 0, 0, 16.667, 11.333, 26.000, 0.667, 0, 26.000, 0,
0.667, 0, 0.667, 97.333, 0.667, 0, 0, 0, 0.667, 0, 11.333, 0, 0, 0, 0, 0, 0.667, 1.342, 8.725, 26.174, 47.297, 3.378,
17.450, 0.671, 0.671, 0, 0, 77.852, 0)
> K <- c(0, 0, 2.273, 0, 0, 0, 1.818, 0, 0, 2.857, 0, 0, 0, 0, 1.220, 1.205, 0, 0, 10.989, 0, 0, 1.695, 5.426, 0,
2.174, 0, 5.755, 1.429, 2.143, 8.511, 0, 0, 0, 0, 0, 10.274, 4.110, 0, 2.055, 2.041, 0, 0, 2.041, 0, 0.680, 18.367,
0.680, 0, 4.762, 21.769, 0, 0, 0, 0, 1.361, 0, 2.703, 0, 4.054, 0.676, 0, 0, 0.680, 4.054, 0, 0, 0.676, 0, 0, 3.378,
8.784, 0, 4.730, 0.676, 0, 4.054, 0, 0, 8.108, 0, 15.541, 0, 4.730, 0, 0, 0, 3.356, 37.584, 0.671, 0, 0, 4.698, 1.342,
0, 3.356, 19.463, 0, 6.040, 14.094, 0, 2.013, 0, 0, 6.081, 0, 20.134, 0.671, 0, 4.698, 0, 0, 1.342, 2.013, 0, 0, 0, 0,
0, 0, 4.027, 0, 8.054, 4.027, 0, 0, 0, 0, 0.671, 0, 6.040, 0, 4.027, 0, 0, 0, 0, 17.450, 0.671, 2.685, 0, 0, 9.396, 0,
0, 2.685, 0, 0, 2.027, 9.459, 0, 0, 0, 1.351, 9.459, 0, 21.622, 0, 20.270, 24.324, 0, 6.040, 0, 0, 1.342, 0.671, 0, 0,
10.067, 0, 8.725, 19.463, 0, 42.953, 1.342, 0, 2.013, 0, 56.376, 0, 0, 24.832, 0, 8.054, 10.738, 0, 0, 0, 0.671, 0, 0,
6.040, 0, 0, 2.667, 0.667, 94.667, 1.333, 0, 10.000, 0.680, 0, 12.000, 0, 4.000, 1.333, 0, 17.687, 0, 4.698, 23.448,
0.694, 2.564, 5.063, 6.803, 1.379, 0, 0, 9.333, 52.000, 0, 0, 0.667, 0, 0, 34.667, 1.333, 0, 0, 0, 4.667, 1.333, 0,
0.667, 0, 0, 2.000, 0, 0, 0, 0.667, 0.667, 2.667, 27.333, 0, 22.667, 2.667, 0, 0, 27.333, 0.667, 0, 16.000, 0, 0,
32.667, 0, 1.333, 2.000, 0, 27.333, 0, 2.667, 2.000, 0, 0, 0, 0, 34.459, 0, 0, 0, 0, 6.000, 0.667, 0, 53.333, 0, 0, 0,
17.333, 2.000, 0, 0, 8.000, 0, 0, 13.333, 2.667, 0, 1.333, 0, 16.667, 2.000, 0, 0, 0, 0, 37.333, 0, 4.667, 0, 0, 0, 0,
15.333, 6.667, 0, 0, 0, 4.000, 1.342, 0, 40.268, 2.000, 0, 22.148, 0.671, 0, 0, 0, 0, 22.819, 0, 75.839, 0, 0)
> L <-c(0, 0, 11.364, 81.818, 2.222, 80.851, 20.000, 60.000, 16.667, 2.857, 20.779, 1.250, 32.927, 9.756, 63.415,
12.048, 5.952, 1.190, 5.495, 0, 0.862, 1.695, 0.775, 0, 13.768, 18.116, 0.719, 0, 12.857, 4.965, 0.699, 19.310, 0,
4.795, 7.534, 1.370, 0, 82.192, 0, 0, 0, 0, 11.565, 52.381, 6.803, 0, 0, 0, 2.041, 0.680, 87.075, 29.252, 97.959,
0.680, 12.245, 0, 0.676, 0, 0.676, 0.676, 10.811, 0, 0, 0.676, 0, 35.135, 1.351, 30.405, 81.081, 0, 0, 100.000, 20.270,
33.784, 99.324, 2.703, 65.541, 0, 2.027, 0, 6.757, 1.351, 2.027, 75.676, 1.351, 7.432, 0, 0, 0, 0, 0, 17.450, 0,
65.101, 0, 0, 97.987, 4.698, 5.369, 100.000, 0.671, 96.644, 0, 3.378, 0.671, 2.013, 3.356, 78.523, 4.027, 82.550, 0,
22.148, 4.698, 0, 2.685, 4.698, 0, 98.658, 2.013, 0.671, 92.617, 3.356, 0.671, 99.329, 4.027, 97.315, 4.027, 0, 0,
0.671, 94.631, 0, 0, 0.671, 1.342, 99.329, 0, 0, 0.671, 0, 58.389, 0, 0, 96.644, 12.752, 0.676, 100.000, 0, 2.027,
95.270, 0, 99.324, 1.351, 0, 0, 0.676, 2.703, 0, 0, 79.195, 0, 14.094, 0, 19.463, 28.188, 0, 6.081, 0, 63.087, 0.671,
0.671, 71.141, 0, 1.342, 50.336, 0, 77.181, 0, 57.047, 0, 0.671, 3.356, 0.671, 2.013, 34.899, 0, 0, 0, 0, 97.987,
9.396, 0.671, 17.450, 0.667, 0, 0.667, 0.667, 13.333, 16.000, 34.694, 56.000, 0, 93.333, 0, 1.333, 2.000, 0.680,
84.354, 3.356, 2.759, 2.083, 5.128, 2.532, 1.361, 0.690, 0, 0, 0.667, 0, 0, 1.333, 0, 1.333, 6.667, 0.667, 0, 0.667,
0.667, 18.000, 0, 2.000, 100.000, 0, 70.667, 0, 7.333, 0, 0, 15.333, 0, 8.000, 0, 3.333, 10.667, 0.667, 14.000, 10.667,
5.333, 1.333, 0.667, 2.667, 0.667, 0, 0, 0.667, 3.333, 3.333, 0, 95.333, 2.667, 58.000, 0, 1.000, 0.667, 1.351, 9.459,
0, 0, 0, 2.027, 0, 0, 0, 0, 60.667, 1.333, 0, 0.667, 0, 2.000, 1.333, 0.667, 2.000, 0.667, 0, 100.000, 0, 0, 0, 1.333,
33.333, 10.000, 15.333, 76.667, 0, 66.000, 0, 0, 0, 0, 2.000, 0, 0, 99.329, 0, 0, 19.333, 18.667, 6.000, 0.667, 1.342,
88.667, 0, 0, 59.732, 1.342, 16.779, 51.351, 0.676, 67.114, 0, 2.013, 0, 2.685, 1.342, 0)
> N <- c(0, 0, 0, 0, 0, 0, 0, 0, 0, 2.857, 0, 0, 0, 8.537, 0, 0, 0, 0, 3.297, 0, 1.724, 0, 2.326, 0, 0.725, 0, 7.914,
6.429, 0.714, 0.709, 0, 15.172, 0, 6.164, 2.740, 0.685, 64.384, 0, 0.685, 0, 0, 0, 0, 0, 0, 13.605, 23.810, 0, 2.041,
6.803, 0, 0.680, 0, 7.483, 7.483, 99.324, 6.081, 0, 2.027, 1.351, 0, 54.422, 0.680, 4.054, 0, 0, 2.027, 2.703, 0,
1.351, 2.703, 0, 0, 0.676, 0, 2.027, 0, 0, 6.081, 0, 5.405, 1.351, 5.405, 0, 1.351, 0, 0.671, 42.282, 44.966, 0, 0,
1.342, 46.980, 0, 0, 61.074, 0, 0, 0.671, 0, 1.342, 0, 0.671, 5.405, 85.235, 6.711, 6.711, 1.342, 0, 0, 1.342, 0,
0.671, 0, 0, 10.067, 0, 0, 0, 34.899, 0, 2.013, 12.752, 0, 4.698, 0, 1.342, 4.698, 32.215, 17.450, 0, 14.765, 5.369,
0.671, 0, 0, 0, 2.685, 16.779, 0, 0, 0.671, 17.450, 0, 3.356, 0.676, 0, 0.676, 0.676, 0, 12.838, 0, 0.676, 0, 100.000,
16.216, 0, 2.027, 1.351, 0, 2.685, 0, 1.342, 0.671, 0, 0, 0, 61.074, 0, 14.094, 13.423, 0, 3.356, 6.711, 0, 52.349, 0,
1.342, 1.342, 97.987, 4.698, 0, 8.054, 20.134, 0, 0, 0, 0.671, 21.477, 0, 3.356, 4.027, 0, 0, 0, 0, 5.333, 0, 1.333, 0,
0, 43.333, 0, 14.000, 2.667, 61.333, 14.286, 0, 4.027, 8.966, 2.083, 23.077, 5.063, 4.762, 4.138, 8.725, 0, 4.000,
2.667, 0, 0, 98.000, 0, 0, 0, 54.000, 0, 0.667, 0, 20.000, 0, 0, 1.333, 0, 0, 7.333, 88.000, 0, 0, 25.333, 0, 12.000,
3.333, 0, 0, 18.000, 0, 1.333, 14.667, 0.667, 0, 14.000, 0, 0, 2.667, 0, 6.667, 6.667, 0, 2.667, 0, 4.667, 6.000,
3.333, 3.378, 0, 0, 0, 0, 0, 0, 0, 40.667, 97.333, 0, 0.667, 22.000, 0, 4.667, 14.000, 13.333, 0, 0, 1.333, 0, 0,
7.333, 32.000, 0.667, 10.000, 0, 7.333, 2.000, 0, 4.000, 0, 0, 10.667, 29.333, 1.333, 0, 1.333, 0, 0, 38.000, 5.333, 0,
0, 0, 2.667, 4.027, 0, 2.013, 20.000, 0, 0, 2.685, 0, 40.541, 0, 5.369, 8.054, 99.329, 1.342, 0, 97.987)
> Q <- c(0, 0, 0, 0, 0, 0, 60.000, 0, 0, 0, 0, 0, 0, 0, 0, 65.060, 1.190, 0, 0, 0.952, 1.724, 5.085, 0.775, 0, 2.174,
0, 3.597, 1.429, 32.143, 0, 0, 2.069, 0, 1.370, 1.370, 19.863, 2.055, 0.685, 1.370, 24.490, 0, 0, 12.925, 0, 0.680,
0.680, 0, 0, 0.680, 1.361, 0, 0, 0, 0.680, 0.680, 0, 1.351, 0, 6.757, 17.568, 0, 0, 0, 0, 0, 0, 2.027, 2.027, 0, 1.351,
33.108, 0, 50.000, 7.432, 0, 0.676, 0, 6.757, 14.189, 99.324, 4.730, 0, 8.108, 0, 0, 0, 2.013, 1.342, 0, 0, 0, 4.027,
2.013, 34.228, 0.671, 0, 0, 6.040, 4.027, 0, 2.685, 0, 0, 4.730, 0, 11.409, 0.671, 1.342, 46.980, 0, 0, 2.013, 5.369,
0, 0, 17.450, 0, 0, 2.685, 0, 0, 36.242, 1.342, 0, 3.356, 0, 0, 11.409, 0, 4.027, 0, 4.027, 0.671, 0, 0, 0, 5.369,
1.342, 0.671, 0, 0, 37.584, 0, 0, 0.671, 0, 0, 6.757, 6.081, 0, 0, 0, 1.351, 0, 0, 27.703, 0, 6.081, 2.027, 0, 30.872,
0, 0, 3.356, 0, 0, 10.811, 0.671, 0, 0.671, 0.671, 0, 5.369, 9.396, 0, 0, 0, 0.671, 0, 0, 29.530, 0, 2.013, 5.369, 0,
0, 10.738, 2.685, 0, 0, 2.685, 0, 0, 63.333, 0.667, 0.667, 2.667, 0, 2.667, 0, 0, 0.667, 0, 6.667, 0, 0, 3.401, 0,
6.040, 2.759, 0, 0, 6.329, 0, 0, 0, 0, 10.667, 3.333, 0, 0.667, 0, 0, 0, 2.667, 0, 0, 2.000, 0, 10.667, 0.667, 0, 0, 0,
0.667, 6.000, 0.667, 0, 0, 0, 0, 1.333, 3.333, 0, 25.333, 26.000, 0, 0, 0.667, 0, 0, 13.333, 0, 0, 34.000, 0, 6.000,
3.333, 0, 0.667, 0, 2.000, 1.000, 2.000, 0, 0.676, 0, 2.703, 0, 0, 0, 0, 6.000, 0, 0.667, 0, 0, 0, 0, 11.333, 4.000, 0,
0, 4.667, 0, 0, 1.333, 0, 0, 0, 0, 4.667, 2.667, 0, 0.667, 0, 0, 8.000, 0, 0.667, 0, 0, 0, 0, 28.000, 11.333, 5.333, 0,
0, 23.333, 2.013, 0, 4.698, 0.667, 0, 1.342, 4.698, 0, 0, 0, 0, 22.819, 0, 2.013, 0, 0)
> R <- c(0, 7.317, 2.273, 2.273, 2.222, 0, 3.636, 0, 0, 1.429, 0, 0, 0, 0, 0, 0, 6.024, 1.190, 0, 1.099, 1.905, 0, 14.407,
3.876, 0, 3.623, 0.725, 5.755, 1.429, 12.143, 2.837, 0, 2.759, 0, 13.014, 0.685, 17.808, 5.479, 0.685, 9.589, 4.762, 0,
0, 2.041, 0, 0, 0, 0, 0, 0.680, 8.163, 0, 0, 0, 2.041, 3.401, 0, 10.811, 0, 37.162, 6.081, 0, 0, 2.041, 0, 0, 0,
15.541, 6.081, 2.027, 0.676, 4.730, 0, 4.054, 2.027, 0, 1.351, 0, 0, 2.027, 0.676, 10.811, 5.405, 10.811, 0, 1.351, 0,
50.336, 6.711, 0.671, 0, 0, 49.664, 34.899, 0, 23.490, 12.081, 0, 42.282, 20.134, 0, 0.671, 0, 0, 1.351, 0, 10.067,
2.013, 0.671, 10.067, 0, 0, 1.342, 20.805, 0, 0, 0, 0, 0, 2.685, 12.752, 0, 11.409, 0, 0, 38.926, 0, 0, 2.685, 0,
4.698, 0.671, 0, 1.342, 0, 0, 0, 4.698, 2.013, 16.779, 0, 0, 31.544, 0, 0, 10.067, 0, 0, 0, 11.486, 0, 0, 0, 5.405,
2.703, 0, 10.135, 0, 8.784, 45.946, 0, 30.201, 0, 0, 3.356, 0, 0, 7.432, 5.369, 0, 8.725, 8.054, 0, 0.671, 0.671, 0,
0.671, 0, 1.342, 4.027, 0, 9.396, 0, 3.356, 14.094, 0, 0.671, 0, 4.027, 0, 0, 4.698, 1.342, 0, 26.667, 2.000, 0.667,
4.667, 0, 6.667, 2.721, 0, 1.333, 0, 7.333, 0, 0, 9.524, 0, 5.369, 6.207, 13.889, 0, 7.595, 2.721, 2.069, 0, 1.333, 0,
16.000, 0, 3.333, 0, 0, 0, 57.333, 0.667, 0, 2.000, 0, 2.000, 0.667, 0, 0, 0, 0.667, 2.667, 0, 1.333, 0, 0, 0, 1.333,
9.333, 0, 30.667, 10.667, 0, 0, 18.667, 0, 0, 14.667, 0, 0, 4.667, 0, 0, 0, 0, 2.000, 0, 5.333, 0, 0, 0.676, 0, 0,
10.135, 0, 0, 0, 0, 2.667, 0.667, 0, 10.000, 0, 0, 0, 23.333, 2.667, 0, 0, 1.333, 0.667, 0, 7.333, 32.000, 0, 0, 0,
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20.667, 4.667, 0, 0, 0, 0, 9.333, 0, 16.000, 0, 0, 0, 0, 4.000, 11.333, 12.667, 0, 0, 4.000, 0.671, 0, 5.369, 0, 0,
2.685, 0.671, 0, 0, 0, 0, 7.383, 0, 8.725, 0, 0)
> S <- c(0, 0, 2.273, 0, 8.889, 0, 0, 0, 1.515, 1.429, 0, 1.250, 1.220, 4.878, 0, 9.639, 1.190, 8.333, 6.593, 8.571,
4.310, 24.576, 62.016, 0, 31.159, 26.812, 3.597, 0.714, 20.714, 0.709, 18.182, 1.379, 0, 9.589, 25.342, 1.370, 9.589,
0, 4.110, 9.524, 0, 0, 2.041, 0, 0.680, 11.565, 6.122, 0, 0, 5.442, 0, 3.401, 0, 34.694, 1.361, 0.676, 5.405, 0,
27.703, 0.676, 0, 4.082, 29.932, 17.568, 97.297, 0, 24.324, 4.730, 0, 0, 0.676, 0, 0, 0.676, 0, 0.676, 0, 2.703,
12.838, 0, 0.676, 2.703, 6.757, 0, 4.730, 0, 0, 2.013, 0, 8.725, 0, 12.752, 2.685, 0, 16.779, 1.342, 0, 0, 2.685, 0,
0.671, 0, 3.356, 10.135, 12.081, 1.342, 1.342, 1.342, 1.342, 0, 0, 0.671, 0, 2.013, 0, 0.671, 0, 0, 40.940, 22.819, 0,
3.356, 4.698, 0, 4.698, 0, 2.685, 10.067, 2.685, 26.174, 0, 21.477, 1.342, 76.510, 0, 0, 21.477, 1.342, 14.094, 0, 0,
0, 2.013, 0, 23.490, 97.973, 0, 2.703, 1.351, 0, 7.432, 0, 48.649, 4.054, 0, 0, 0, 1.351, 17.568, 0, 6.040, 0, 12.081,
14.765, 18.792, 0, 17.568, 2.013, 0, 8.054, 22.819, 0, 3.356, 24.161, 0, 0, 0, 28.188, 4.027, 0, 3.356, 0, 22.148,
23.490, 0, 0, 0, 28.859, 0, 0, 0.671, 32.215, 0, 0, 0, 0, 2.667, 1.333, 23.333, 3.401, 0, 26.000, 0, 22.667, 75.333, 0,
8.163, 0, 3.356, 9.655, 3.472, 19.231, 24.051, 6.122, 22.759, 2.685, 1.333, 1.333, 6.000, 0.667, 2.667, 1.333, 0, 0,
2.000, 2.000, 0, 38.667, 0, 6.000, 19.333, 0, 0, 0, 90.000, 22.667, 6.667, 4.000, 0, 44.667, 0.667, 3.333, 2.667,
10.667, 1.333, 0.667, 0, 15.333, 4.000, 1.333, 0, 8.667, 0.667, 14.667, 3.333, 0, 32.667, 36.000, 0, 0.667, 0.667,
58.000, 29.000, 14.000, 10.811, 0, 0.676, 37.162, 17.568, 2.027, 32.432, 0, 8.000, 0, 2.667, 0, 0, 0, 0.667, 6.667,
36.667, 0, 0, 4.000, 3.333, 0, 2.667, 4.000, 98.667, 44.667, 0, 2.667, 10.000, 0, 0.667, 0, 96.667, 0.667, 11.333,
14.000, 0, 0, 44.966, 0, 4.667, 28.000, 16.000, 1.333, 0, 40.667, 23.490, 0, 10.738, 2.667, 0, 0.671, 11.409, 0, 8.108,
0, 46.980, 4.698, 0.671, 2.685, 0, 0.671)
> T <- c(0, 0, 70.455, 0, 0, 0, 1.818, 0, 0, 0, 12.987, 2.500, 2.439, 1.220, 7.317, 0, 0, 13.095, 21.978, 0, 14.655,
1.695, 4.651, 0, 11.594, 2.899, 2.878, 0, 2.857, 4.255, 0, 0.690, 0, 4.110, 0.685, 0, 0.685, 0, 50.000, 1.361, 0, 0,
0.680, 0, 1.361, 6.803, 14.286, 40.816, 45.578, 2.041, 0, 0, 0, 18.367, 0, 0, 0, 0, 2.703, 10.811, 0, 30.612, 8.844,
62.162, 0.676, 0, 1.351, 0, 0, 0, 2.703, 0, 0.676, 1.351, 0, 0, 0, 0, 27.027, 0, 6.757, 20.270, 2.027, 0, 41.216, 0, 0,
2.685, 0, 11.409, 0, 0, 0.671, 0.671, 3.356, 0, 0, 24.161, 4.698, 0, 0, 0, 0, 0, 0.671, 6.040, 0, 0.671, 2.013, 0, 0,
8.054, 0, 0, 0, 1.342, 0, 0, 1.342, 0, 0, 18.121, 6.040, 0, 4.027, 0, 10.067, 1.342, 0, 0, 0, 15.436, 0, 2.685, 0, 0,
4.698, 0, 0.671, 0, 0, 0, 0, 0, 3.356, 0, 0, 7.432, 25.000, 0, 0, 0, 0, 0, 0, 0.676, 0, 27.027, 4.054, 0, 1.342, 0,
0.671, 0, 0.671, 0, 2.703, 0.671, 0, 51.678, 0.671, 0, 22.819, 11.409, 0, 0.671, 0, 3.356, 0, 2.013, 1.342, 0, 2.685,
11.409, 0, 0, 0, 8.054, 0, 0, 18.792, 0, 0, 0.667, 0, 0, 12.000, 0, 26.000, 0.680, 0, 0.667, 0, 2.000, 0.667, 6.667,
5.442, 0, 2.685, 2.759, 24.306, 10.256, 6.329, 2.041, 2.069, 2.685, 0, 2.000, 7.333, 0, 3.333, 0, 0, 0, 1.333, 0,
1.333, 23.333, 0, 12.000, 50.667, 0, 0, 0, 0.667, 4.667, 1.333, 0, 0, 12.667, 23.333, 4.667, 17.333, 22.667, 2.000,
0.667, 0, 1.333, 20.667, 2.667, 2.000, 4.000, 0, 83.333, 0, 2.667, 4.667, 2.000, 0, 5.333, 0, 6.000, 4.000, 1.333,
18.919, 0.676, 0, 0, 0, 0, 0, 0.685, 1.333, 0.667, 2.667, 0.667, 0, 0, 1.333, 0.667, 2.667, 96.000, 0, 4.000, 0, 0,
0.667, 0.667, 0.667, 2.000, 0, 4.000, 11.333, 0, 0, 0, 2.000, 0, 0, 0, 0, 0, 6.711, 0, 0.667, 2.000, 0, 3.333, 0,
2.667, 13.423, 0, 5.369, 0.667, 1.342, 5.369, 0.671, 0, 10.811, 0, 0, 0, 0, 0, 0, 0.671)
> V <- c(0, 0, 0, 2.273, 8.889, 0, 0, 20.000, 54.545, 24.286, 19.481, 12.500, 31.707, 6.098, 3.659, 0, 58.333, 26.190,
2.198, 0.952, 4.310, 0.847, 4.651, 0, 0, 10.870, 7.914, 0, 2.143, 41.135, 2.098, 7.586, 0, 1.370, 0, 0, 0, 0, 3.425,
0.680, 74.150, 0, 9.524, 46.259, 0.680, 0, 0, 8.844, 22.449, 1.361, 9.524, 0, 0, 0, 2.041, 0, 0, 0, 0, 3.378, 45.270,
0.680, 4.082, 0, 0, 0.676, 0.676, 2.027, 0, 2.027, 0, 0, 2.027, 13.514, 0.676, 1.351, 0.676, 0.676, 0, 0, 0.676,
56.757, 1.351, 21.622, 37.162, 5.405, 0, 0, 0, 0.671, 0, 2.013, 0, 0, 0, 0, 0, 0.671, 15.436, 0, 27.517, 0.671, 0, 0,
0, 10.067, 4.027, 0, 6.040, 6.040, 0, 1.342, 0, 0, 0, 36.242, 0, 0, 4.027, 0, 6.711, 0, 20.134, 0, 2.013, 0, 0, 0.671,
0, 0, 0, 0, 0, 4.027, 16.779, 0.671, 0.671, 0, 0, 2.685, 0, 0, 0, 0, 20.134, 0, 0, 0.676, 1.351, 4.054, 4.054, 0, 0, 0,
0, 2.027, 3.378, 10.135, 0.676, 6.040, 0, 0, 0, 2.013, 0.671, 0, 8.108, 0, 0, 0, 6.711, 0.671, 0.671, 7.383, 31.544, 0,
5.369, 0, 0.671, 0, 1.342, 10.738, 0.671, 2.013, 12.081, 0, 0, 0.671, 0, 1.342, 24.832, 0.671, 0.671, 0, 0, 0, 0, 0,
1.333, 9.524, 1.333, 0, 1.333, 0.667, 0.667, 17.333, 0.680, 0, 0, 0.690, 0.694, 0, 0, 12.925, 1.379, 4.027, 0, 1.333,
0, 0, 0, 0, 0, 0, 0, 0, 5.333, 12.000, 2.667, 0.667, 8.667, 0, 0, 20.000, 0, 0, 0, 0.667, 0.667, 0, 48.667, 0.667,
4.000, 20.667, 5.333, 0, 0.667, 0, 0, 2.000, 6.667, 0, 0, 0.667, 0, 3.333, 2.000, 0, 0.667, 10.667, 2.000, 0, 2.000, 0,
6.081, 0.676, 0, 0, 0, 6.081, 0, 0, 0, 0, 2.667, 0, 0, 0, 0.667, 0.667, 0, 0, 0, 3.333, 0, 0, 2.667, 0.667, 0, 0.667,
50.000, 2.000, 2.667, 1.333, 0, 3.333, 0, 1.333, 0, 0.667, 0.667, 0, 4.027, 0.671, 0, 1.333, 0, 59.333, 0, 0.667,
1.342, 0, 0, 1.333, 18.121, 10.738, 13.423, 0.676, 0, 14.765, 1.342, 0, 0, 1.342, 20.805, 0)
> Y <- c(0, 0, 0, 0, 0, 2.128, 0, 0, 0, 0, 0, 1.250, 0, 26.829, 0, 0, 0, 0, 0, 0, 17.241, 0, 0, 0, 16.667, 0.725,
13.669, 0, 4.286, 0, 0, 14.483, 41.379, 9.589, 4.795, 0.685, 0, 2.740, 15.068, 0, 0, 0, 0, 0, 0, 10.204, 0, 0,
8.163, 0, 25.850, 0, 0, 8.844, 0, 58.108, 0, 0, 0, 0, 0, 0, 0, 0, 3.378, 0, 13.514, 0, 0.676, 0, 0, 1.351, 0, 2.703,
0, 0, 0, 0, 14.865, 0.676, 10.811, 0, 0, 0, 0, 0, 0.671, 0, 0, 0, 0, 0, 0.671, 0, 0, 0, 2.685, 0, 2.685, 0, 0, 19.595,
0, 1.342, 2.013, 0, 0.671, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1.342, 0.671, 0, 0, 3.356, 0, 4.027, 0, 13.423, 32.886, 0, 7.383,
0, 2.013, 0, 0.671, 0, 0, 0, 0, 0.671, 87.248, 0, 0, 0, 0, 0.671, 0, 0, 0.676, 6.757, 0, 0, 0, 3.378, 6.081, 0, 0, 0,
0, 2.027, 0, 4.027, 0, 0, 0, 0, 0.671, 24.324, 0, 0.671, 1.342, 1.342, 0, 0.671, 0.671, 0, 0, 0, 0.671, 4.027, 0,
1.342, 0, 2.013, 0.671, 0, 0, 0, 0, 0, 0, 2.013, 0, 0, 0, 0, 0, 14.000, 0, 1.333, 8.163, 0, 0, 0, 0.667, 1.333, 0,
10.204, 0, 57.718, 2.759, 0, 12.821, 0, 12.245, 0.690, 0, 0.667, 0, 0.667, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0.667, 0, 0,
0.667, 0, 0, 2.667, 0.667, 1.333, 0, 0.667, 0, 0.667, 0, 1.333, 0, 16.000, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0.667, 2.000,
0, 0, 4.667, 1.333, 14.000, 0.667, 1.351, 0.676, 0, 0, 0, 1.351, 0, 14.384, 0, 0, 0.667, 0, 0, 0, 0.667, 1.333, 1.333,
0, 1.333, 0, 0, 0, 0, 1.333, 0, 0.667, 0, 1.333, 0.667, 0, 0, 0, 0, 0.667, 0, 26.667, 0, 1.333, 0, 0, 0, 5.333, 5.333,
0, 0, 0.667, 8.054, 0, 0, 1.333, 0, 0, 0, 0, 0, 0, 1.342, 6.711, 0, 0, 0, 0)
> H <- c(0, 0, 0, 0, 0, 2.128, 7.273, 0, 0, 0, 0, 1.250, 0, 4.878, 0, 0, 0, 0, 0, 0, 1.724, 0, 0, 0, 2.174, 0, 1.439,
2.143, 2.143, 0, 0, 0.690, 0, 6.849, 0.685, 0, 4.110, 11.644, 8.904, 2.721, 0, 0, 2.721, 0, 0, 0.680, 14.966, 0, 0.680,
31.293, 0, 0.680, 0, 0, 0.680, 0, 6.081, 0, 2.027, 0, 0, 6.803, 0.680, 0, 0, 0, 0, 2.027, 0, 0, 16.216, 0, 0.676,
0.676, 0, 0.676, 0, 0.676, 2.703, 0, 5.405, 0, 3.378, 0, 0.676, 0, 1.342, 0, 1.342, 0, 0, 0, 0.671, 0, 0, 4.027, 0.671,
0.671, 0.671, 0, 2.685, 0, 0, 4.730, 1.342, 4.698, 3.356, 0, 6.711, 0, 17.450, 0, 0.671, 0, 0, 1.342, 0, 0, 2.013,
14.765, 0, 1.342, 7.383, 0, 8.054, 0, 0, 17.450, 0, 0, 0, 1.342, 0, 0, 0, 0, 0, 0.671, 2.685, 1.342, 0, 0, 1.342, 0, 0,
0, 0, 0.676, 2.703, 0, 0, 0, 0.676, 0, 0, 5.405, 0, 9.459, 0, 0, 16.107, 0, 45.638, 0.671, 0.671, 0, 2.027, 2.013, 0,
0.671, 4.027, 0, 12.081, 2.013, 0, 0.671, 0, 0, 7.383, 0, 2.013, 0, 2.013, 0, 0, 0, 0, 4.027, 0.671, 0, 2.685, 6.040,
0, 2.667, 0, 0, 46.000, 0, 2.000, 2.041, 0, 0, 0, 6.667, 0, 0, 20.408, 0, 0, 2.759, 0.694, 2.564, 0, 2.041, 2.759, 0,
0, 2.000, 0.667, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1.333, 0.667, 0, 0.667, 0, 5.333, 0, 0, 0, 0, 0, 1.333, 1.333, 0,
2.000, 3.333, 0, 0, 1.333, 0, 0, 0.667, 0, 0, 2.000, 0, 10.667, 36.000, 0, 0.667, 0.667, 1.333, 27.000, 44.000, 20.946,
0, 0, 0, 0.676, 0, 0, 14.384, 8.667, 0, 0, 0, 0, 0, 0, 3.333, 4.000, 0, 0, 0, 0, 0, 1.333, 1.333, 0, 0.667, 0, 8.667,
7.333, 0, 0, 0, 0, 22.000, 0, 1.333, 0, 0, 0.671, 0, 2.000, 0, 3.333, 0, 0, 0.667, 6.711, 0, 2.685, 1.333, 0, 0, 0, 0,
1.351, 0, 1.342, 11.409, 0, 0.671, 0, 0)
> G <- c(0, 2.439, 0, 0, 33.333, 0, 0, 0, 0, 12.857, 0, 35.000, 0, 0, 1.220, 2.410, 4.762, 3.571, 23.077, 17.143, 0, 0,
0, 0, 0, 0, 0.719, 60.714, 0.714, 0, 1.399, 0, 0, 6.164, 7.534, 1.370, 7.534, 0, 0, 2.041, 0, 0, 0, 0, 0, 0.680, 0, 0,
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0.680, 0.680, 0, 0, 0, 4.082, 3.401, 0, 0, 0, 7.432, 0, 0, 0, 0, 0, 0, 0, 25.676, 0, 2.027, 8.108, 0, 1.351, 1.351,
0, 0, 0, 83.784, 6.757, 0, 1.351, 2.703, 6.757, 0, 0, 0, 30.872, 0.671, 17.450, 1.342, 0, 0, 8.725, 0, 0.671, 0, 0, 0,
0, 0, 0, 0, 78.523, 9.459, 0, 2.013, 24.161, 1.342, 0, 0, 0, 0, 12.752, 0, 0, 0, 97.315, 0, 0, 6.040, 0, 0, 0, 0, 0, 0,
2.013, 6.711, 0, 22.819, 0, 22.148, 6.711, 0, 0, 0, 0, 19.463, 17.450, 0, 0, 0, 2.013, 0, 0.671, 0, 0, 0, 1.351, 0, 0,
0, 0, 59.459, 0, 0.676, 0, 1.351, 0.676, 0, 0, 0, 18.121, 0, 0, 0, 2.703, 0.671, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0.671,
1.342, 0, 1.342, 0, 2.013, 1.342, 0, 0, 0.671, 12.081, 1.342, 0, 1.342, 32.215, 0, 0.667, 94.000, 0.667, 0.667, 0,
0.667, 0, 0, 4.000, 0, 6.000, 2.000, 0, 2.721, 0, 2.013, 4.828, 2.083, 0, 2.532, 6.122, 11.034, 10.738, 0.667, 8.000,
2.000, 0, 64.667, 0, 0, 0, 0, 28.667, 0, 2.000, 0, 6.000, 0.667, 0, 0, 0, 7.333, 22.000, 0, 89.333, 0, 9.333, 0, 6.667,
1.333, 0, 6.667, 0, 0, 2.000, 2.667, 0, 0, 1.333, 98.667, 0, 0, 0, 5.333, 0.667, 0, 0, 0, 2.667, 0, 33.333, 2.027, 0,
99.324, 0.676, 75.676, 0, 60.135, 0, 1.333, 0, 0, 0, 0, 0, 0, 2.667, 0.667, 0, 0, 0, 86.667, 0, 10.000, 2.667, 0,
18.000, 0, 0.667, 0.667, 0, 0.667, 0, 0, 4.000, 48.667, 0.667, 0, 0, 0.671, 0, 1.333, 0, 14.667, 0, 0, 6.000, 0.671, 0,
19.463, 2.000, 0, 0.671, 0, 0, 0, 0, 0, 2.013, 0, 0, 0, 0)
> CS <- c(9, 5, 5, 5, 4, 5, 5, 4, 4, 3, 4, 4, 5, 2, 5, 7, 5, 4, 4, 7, 4, 5, 5, 9, 4, 5, 3, 5, 5, 4, 9, 1, 9, 3, 2, 5,
5, 7, 5, 4, 7, 9, 4, 9, 7, 5, 5, 8, 6, 4, 8, 4, 9, 5, 3, 9, 4, 9, 4, 6, 8, 8, 6, 5, 9, 9, 7, 4, 8, 6, 4, 9, 4, 4, 9, 6,
7, 8, 3, 9, 1, 6, 2, 8, 5, 8, 6, 5, 6, 7, 9, 5, 7, 9, 7, 7, 9, 5, 3, 9, 7, 9, 6, 1, 9, 1, 3, 6, 4, 8, 8, 5, 6, 9, 9, 6,
9, 9, 4, 5, 8, 4, 3, 9, 4, 9, 5, 2, 9, 3, 8, 4, 4, 8, 8, 9, 5, 4, 4, 6, 8, 6, 7, 8, 4, 9, 9, 6, 4, 8, 6, 9, 5, 3, 9, 3,
9, 4, 5, 7, 4, 9, 8, 4, 7, 9, 3, 6, 8, 6, 4, 6, 4, 3, 6, 7, 6, 6, 4, 9, 1, 7, 4, 5, 6, 9, 8, 4, 8, 9, 4, 6, 9, 5, 8, 9,
4, 7, 4, 1, 5, 5, 8, 4, 7, 7, 1, 7, 3, 2, 5, 3, 3, 2, 3, 6, 6, 4, 4, 9, 6, 9, 9, 8, 5, 6, 7, 5, 6, 3, 5, 9, 9, 7, 9, 1,
8, 6, 5, 5, 5, 4, 3, 5, 4, 4, 7, 5, 4, 8, 8, 3, 9, 9, 4, 8, 3, 5, 8, 5, 4, 5, 2, 8, 4, 6, 9, 5, 7, 7, 8, 5, 3, 9, 4, 5,
8, 9, 8, 3, 4, 9, 8, 5, 8, 9, 4, 5, 9, 5, 6, 2, 3, 5, 8, 6, 9, 3, 7, 1, 9, 9, 7, 9, 5, 4, 5, 6, 9, 5, 4, 8, 4, 5, 7, 4,
3, 8, 7, 6, 7, 3, 9, 6, 8, 9)
> library(ppcor)
Loading required package: MASS
> pcor.test(V, T, CS)
    estimate   p.value statistic   n gp  Method
1 0.06063065 0.2757898  1.091675 326  1 pearson
> pcor.test(V, T, A)
    estimate   p.value statistic   n gp  Method
1 0.06903116 0.2145455  1.243609 326  1 pearson
> pcor.test(F, Y, CS)
    estimate   p.value statistic   n gp  Method
1 0.08316631 0.1346229  1.499878 326  1 pearson
> pcor.test(I, V, CS)
  estimate      p.value statistic   n gp  Method
1 0.235185 1.837632e-05  4.348772 326  1 pearson
> pcor.test(N, S, CS)
     estimate   p.value  statistic   n gp  Method
1 -0.04547526 0.4138822 -0.8181368 326  1 pearson
> pcor.test(R, K, CS)
   estimate      p.value statistic   n gp  Method
1 0.2233504 4.856513e-05  4.118129 326  1 pearson
> pcor.test(R, Q, CS)
   estimate      p.value statistic   n gp  Method
1 0.1862678 0.0007391395  3.407274 326  1 pearson
> pcor.test(G, S, CS)
     estimate   p.value  statistic   n gp  Method
1 -0.007308322 0.8955801 -0.1313501 326  1 pearson
> pcor.test(D, G, CS)
     estimate   p.value  statistic   n gp  Method
1 -0.007607543 0.8913308 -0.1367282 326  1 pearson
> pcor.test(S, N, CS)
     estimate   p.value  statistic   n gp  Method
1 -0.04547526 0.4138822 -0.8181368 326  1 pearson
>
>
>
>
```