R version 4.4.0 (2024-04-24) -- "Puppy Cup" Copyright (C) 2024 The R Foundation for Statistical Computing Platform: aarch64-apple-darwin20

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Natural language support but running in an English locale

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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]

```
> 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,
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  3.378, 0, 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,
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  17.333, 6.667, 1.333, 1.361, 0, 1.342, 8.966, 2.564, 1.266, 1.361, 3.448, 14.765, 0.667, 24.667, 3.333, 0, 0, 0, 0,
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  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,\ 1.342,\ 2.000,\ 18.792,\ 5.369,\ 1.342,\ 2.000,\ 18.792,\ 5.369,\ 1.342,\ 2.000,\ 18.792,\ 5.369,\ 1.342,\ 2.000,\ 18.792,\ 5.369,\ 1.342,\ 2.000,\ 18.792,\ 5.369,\ 1.342,\ 2.000,\ 18.792,\ 5.369,\ 1.342,\ 2.000,\ 18.792,\ 5.369,\ 1.342,\ 2.000,\ 18.792,\ 5.369,\ 1.342,\ 2.000,\ 18.792,\ 5.369,\ 1.342,\ 2.000,\ 18.792,\ 5.369,\ 1.342,\ 2.000,\ 18.792,\ 5.369,\ 1.342,\ 2.000,\ 18.792,\ 5.369,\ 1.342,\ 2.000,\ 18.792,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 1.342,\ 
  3.356, 0, 0, 0, 28.188, 0.671, 0, 1.342, 0, 0)
  > C <-c(0, 0, 0, 0, 2.222, 0, 0, 0, 0, 8.571, 0, 30.000, 0, 8.537, 0, 0, 0, 0, 3.297, 53.333, 0, 0, 0, 100.000, 0,
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0.690, 0, 0.667, 0.667, 0, 0, 0, 0, 0, 0, 93.333, 0, 0, 0.667, 1.333, 60.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0.667, 0, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 
0, 0, 4.000, 0, 0.667, 0, 0.671, 4.027, 0, 0, 0, 14.765, 2.685, 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, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 
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, 0.680, 0.680, 0.680, 0, 0, 0, 4.082, 3.401, 0, 0, 0, 7.432, 0, 0, 0, 0, 0, 0, 0, 0, 25.676, 0, 2.027, 8.108, 0, 1.351, 1.351,
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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,
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0, \; 2.000, \; 2.667, \; 0, \; 0, \; 1.333, \; 98.667, \; 0, \; 0, \; 0, \; 5.333, \; 0.667, \; 0, \; 0, \; 0, \; 0, \; 33.333, \; 2.027, \; 0, \; 99.324, \; 0.676, \; 75.676, \; 0, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.000, \; 0.0000, \; 0.0000, \; 0.0000, \; 0.0000, \; 0.0000, \; 0.0000, \; 0.0000, \; 0.0000, \; 0.0000, \; 0.0000, \; 0.0000, 
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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)
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0.671, 0.671, 0, 2.685, 0, 0, 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,
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 0.667, 97.333, 0.667, 0, 0, 0, 0.667, 0, 11.333, 0, 0, 0, 0, 0, 0, 0.667, 1.342, 8.725, 26.174, 47.297, 3.378, 17.450,
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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,
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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, 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, 0, 667, 3.333, 3.333, 0, 95.333, 2.667, 58.000, 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, 0, 1.333, 33.333, 10.000, 15.333, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 
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 59.732, 1.342, 16.779, 51.351, 0.676, 67.114, 0, 2.013, 0, 2.685, 1.342, 0)
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 0,\ 0.667,\ 2.667,\ 0,\ 1.333,\ 0.667,\ 8.667,\ 4.000,\ 0,\ 1.333,\ 0.667,\ 0,\ 0.667,\ 0,\ 1.333,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 
 7.333, 0, 0, 0.671, 2.013, 2.685, 0.676, 0, 0.671, 0, 1.342, 0, 0, 0, 0)
 > N <-c(0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 2.857, 0, 0, 0, 8.537, 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,\ 0,\ 13.605,\ 23.810,\ 0,\ 2.041,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.685,\ 0.68
 1.342, 46.980, 0, 0, 61.074, 0, 0, 0.671, 0, 1.342, 0, 0.671, 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, 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,
 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,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 10.000,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 
 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)
 > P <-c(0, 0, 0, 6.818, 4.444, 2.128, 3.636, 0, 0, 0, 0, 0, 0, 0, 0, 10.714, 27.381, 0, 0, 0.862, 48.305, 8.527, 0,
 0.680, 0, 0, 0, 0, 1.351, 0, 0, 0, 0.680, 0, 0, 0, 47.297, 1.351, 0, 0.676, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 5.405,
 27.027, 0, 0, 0, 0, 1.342, 0, 0, 0, 0, 0, 0, 48.322, 0, 0, 0.671, 0, 0, 0, 0, 0, 5.369, 0.671, 0, 0, 0, 61.074,
 0, 0, 0, 0, 5.369, 0, 7.383, 0, 0, 0, 0, 4.027, 0, 0, 0, 16.107, 0, 0.667, 0, 0, 0.667, 0, 0, 0, 0, 0, 0,
 2.041, 0.680, 0.671, 0, 2.564, 12.658, 2.041, 2.069, 0, 0, 0, 0, 15.333, 0, 98.667, 0, 0, 0, 0, 0.667, 0, 0, 0,
 <-c(0, 0, 0, 0, 0, 0, 0, 60.000, 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, 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,
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 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, 0.671, 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, 6.329, 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, 0.667,
 1.333, 0, 0, 0, 0, 4.667, 2.667, 0, 0, 0, 8.000, 0, 0.667, 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)
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 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, 0, 10.067, 2.013,
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2.000, 2.000, 18.667, 0, 0, 10.000, 0, 1.333, 0, 0, 1.333, 0, 0, 2.000, 3.333, 0, 6.040, 1.333, 0, 0, 2.000, 7.333
0,\ 0.667,\ 0,\ 2.000,\ 0,\ 0,\ 0,\ 21.333,\ 2.667,\ 0.667,\ 0,\ 10.067,\ 0,\ 0,\ 0.667,\ 12.667,\ 0,\ 3.333,\ 2.000,\ 0,\ 0.667,\ 0,\ 0,\ 0,\ 0.667,\ 0,\ 0,\ 0,\ 0.667,\ 0,\ 0,\ 0,\ 0.667,\ 0,\ 0,\ 0,\ 0.667,\ 0,\ 0,\ 0,\ 0.667,\ 0,\ 0,\ 0,\ 0.667,\ 0,\ 0,\ 0.667,\ 0,\ 0,\ 0.667,\ 0,\ 0,\ 0.667,\ 0,\ 0,\ 0.667,\ 0,\ 0,\ 0.667,\ 0,\ 0,\ 0.667,\ 0,\ 0,\ 0,\ 0.667,\ 0,\ 0,\ 0,\ 0.667,\ 0,\ 0,\ 0,\ 0.667,\ 0,\ 0,\ 0,\ 0.667,\ 0,\ 0,\ 0,\ 0.667,\ 0,\ 0,\ 0,\ 0.667,\ 0,\ 0,\ 0.667,\ 0,\ 0,\ 0.667,\ 0,\ 0,\ 0.667,\ 0,\ 0,\ 0.667,\ 0,\ 0,\ 0.667,\ 0,\ 0,\ 0.667,\ 0,\ 0,\ 0.667,\ 0,\ 0,\ 0.667,\ 0,\ 0,\ 0.667,\ 0,\ 0,\ 0.667,\ 0,\ 0,\ 0.667,\ 0,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0.667,\ 0
33.557, 1.342, 0, 0.671, 0, 0)
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7.200, 3.200, 0, 0, 6.923, 0, 5.426, 5.426, 0, 0, 0, 0.725, 14.085, 0, 0, 2.778, 0, 2.083, 0.694, 22.759, 0, 0, 1.370,
51.333, 0, 10.667, 0, 0, 6.711, 4.000, 0, 0, 34.667, 0, 44.000, 0, 0, 1.333, 0, 0, 0.667, 0.667, 0, 0, 2.013, 0, 3.333,
8.000, 0, 40.000, 0, 0.667, 1.333, 0, 0.667, 0, 12.667, 0, 0, 0, 0, 10.738, 67.333, 0, 1.333, 0, 0, 0, 0, 0, 2.667, 0, 0, 0.667, 0, 11.333, 0, 10.738, 6.040, 0, 0.671, 0, 0, 6.944, 4.478, 16.429, 17.021, 2.113, 53.691, 0.667, 8.667,
1.342, 0, 0, 0, 0, 0, 0, 0, 2.667, 0, 0, 0, 14.000, 0, 0, 92.000, 0, 0, 6.667, 0.667, 0.667, 0, 4.027, 0.671, 24.832, 0,
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19.333,\ 0,\ 0,\ 0.667,\ 76.667,\ 0,\ 88.667,\ 2.000,\ 12.667,\ 0,\ 0,\ 1.333,\ 4.667,\ 0,\ 0,\ 8.667,\ 0,\ 12.000,\ 0,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.333,\ 1.3
92.000, 0, 0, 1.333, 0, 0.667, 0, 0, 0, 0, 0, 0, 2.000, 0, 0, 0, 0, 0, 0, 0, 0, 0, 42.000, 0, 0.671, 0, 0, 36.242, 0, 0, 1.342,
0, 0, 0, 0)
    3.200, 0.800, 3.200, 0, 0, 0, 0, 775, 0, 0, 1.504, 0, 1.449, 9.859, 0, 0, 9.722, 0, 0, 4.861, 0, 0, 13.793, 1.370, 0, 0, 0, 19.728, 0, 0, 0, 0, 0, 57.047, 0, 2.027, 16.892, 0, 0, 0, 1.342, 0, 0, 71.141, 16.779, 0, 4.027, 19.463, 0, 34.228,
     5.369, 0.671, 0, 6.667, 1.333, 2.667, 0, 0, 0, 0.667, 4.667, 22.000, 0, 0, 2.013, 0.667, 0, 0.667, 0.667,
6.000, 0, 0.667, 0, 0, 0.667, 2.685, 4.000, 2.000, 0, 44.667, 0, 8.000, 0, 0, 2.000, 1.333, 0, 1.333, 0, 0, 8.054,
 22.148, 0, 0, 0, 0.667, 4.667, 0, 0.667, 0, 1.333, 23.333, 0, 0, 0, 33.333, 38.000, 1.333, 0, 0, 19.333, 2.000, 0,
0, 3.333, 0, 0, 0, 0, 4.667, 0, 0, 1.333, 0, 0.671, 0, 0, 0, 0, 1.370, 1.389, 9.701, 20.714, 9.929, 0, 3.356, 1.333,
 24.667, 1.342, 0, 0, 0, 0, 0, 0, 2.667, 0, 2.000, 0, 28.000, 0.667, 0, 0, 0, 0, 8.000, 0, 0, 0, 2.013, 2.685, 19.463,
 0.667, 0, 3.333, 0, 0, 2.000, 2.667, 0, 0.667, 14.667, 2.000, 0, 0, 27.333, 0, 0, 8.667, 4.000, 0, 0.667, 0, 4.000, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 0.667, 0, 
28.859, 6.040, 0, 0.671, 0, 0, 6.711, 0, 3.356, 0, 0)
> Fm <-c(0, 0, 0, 8.889, 8.889, 4.167, 1.961, 1.852, 13.559, 27.692, 4.839, 5.195, 13.750, 20.482, 2.326, 0, 0, 1.031,
 0.971, 0, 21.296, 0, 0, 0, 6.400, 6.400, 0.800, 0, 1.600, 0, 0, 10.769, 8.462, 5.426, 29.457, 0, 0, 5.263, 0.725, 0, 0,
0, 0.694, 0, 0, 0, 0.690, 0, 0, 2.055, 1.370, 17.123, 0, 0, 40.268, 0, 4.027, 2.685, 0, 0, 0.671, 0, 0, 0, 1.342,
64.430, 0, 14.094, 4.698, 0, 0.671, 0, 2.013, 2.013, 0.671, 1.342, 0.671, 0, 0, 0, 15.333, 0, 3.333, 3.333, 0, 0, 0, 0, 0,
0, 0, 19.333, 0, 0, 9.396, 1.342, 0.667, 16.000, 0, 32.667, 2.667, 0, 0, 0.667, 0, 0, 0, 2.000, 0.667, 0, 0, 0, 8.667,
43.333, 0, 0, 0, 2.667, 1.333, 0, 0, 2.000, 0, 0, 0, 0, 25.333, 5.333, 0, 0, 0.667, 0, 0, 1.333, 0, 0.667, 0, 0, 52.000, 99.333, 0.671, 0, 1.333, 0, 0.667, 27.333, 0, 1.333, 2.000, 0, 18.000, 0.667, 18.667, 0, 0, 0.667, 4.000, 0, 10.000, 0,
> Gm <-c(0, 0, 2.326, 0, 20.000, 0, 0, 0, 3.390, 24.615, 0, 37.662, 5.000, 1.205, 1.163, 4.301, 13.684, 0, 22.330,
15.094, 0.926, 0, 0, 0, 0, 0, 0.800, 64.000, 1.600, 0.800, 0, 0, 10.078, 7.752, 0.752, 14.286, 0, 0, 1.408, 0, 0, 0,
0, 0, 0.694, 2.759, 0, 0.690, 0.685, 0, 0, 0, 4.082, 2.685, 0, 0, 0, 9.396, 0, 0, 0, 0, 0.671, 0, 0, 0, 24.161, 0,
97.333, 0, 1.333, 6.667, 0, 0, 0, 0, 0, 0, 0, 0.667, 2.000, 0, 28.667, 0, 17.333, 6.667, 0, 0, 0, 0.667, 26.000, 19.333,
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13.103, 0, 0, 35.616, 0, 0.685, 0, 0, 1.342, 0, 8.725, 0, 2.685, 0, 0, 4.730, 0, 0, 0, 0, 0, 4.698, 0, 0, 14.094, 0, 2.013, 2.013, 0, 0, 0, 0, 0.671, 4.027, 0, 4.667, 0, 2.000, 0, 0, 4.000, 0, 0.667, 0, 0, 1.342, 0.667, 0, 0, 4.667, 0,
0, 3.333, 0, 0, 0, 6.040, 0.671, 0, 25.503, 0, 0, 1.389, 0, 1.429, 0, 0, 0, 0, 3.333, 0.671, 0, 0, 0, 0, 0.667, 0, 0, 1.333, 0, 2.000, 0.667, 0, 0.667, 0, 0, 4.000, 0, 0, 0, 0, 0, 2.013, 0, 0, 1.333, 0.667, 0, 0, 0.667, 0, 0, 1.333,
4.000, 0.667, 1.333, 0, 0, 0.667, 10.667, 0, 3.333, 0.667, 0, 0, 0.671, 0, 0, 0.671, 12.081, 0, 1.342, 0, 1.342) > Im <-c(0, 0, 4.651, 2.222, 4.444, 8.333, 5.882, 1.852, 8.475, 9.231, 40.323, 7.792, 7.500, 0, 3.488, 0, 5.263, 7.216,
2.857, 2.128, 2.113, 0, 0, 0, 1.342, 0, 0, 0, 0.667, 2.000, 0, 40.667, 0, 13.333, 2.667, 5.333, 1.333, 0, 9.333, 0, 1.333, 1.333, 0.667, 0, 0, 9.396, 2.013, 18.000, 4.667, 0, 0, 0, 0.667, 2.000, 86.000, 0, 0, 0, 1.333, 84.667,
10.667, 0, 0, 0, 0, 0, 0, 1.342, 8.725, 25.503, 48.322, 1.342, 20.805, 0, 0, 0, 0.671, 79.866, 0)
2.400, 0.800, 5.600, 1.600, 0, 12.000, 0, 1.538, 0, 0, 0.775, 15.038, 6.767, 0, 2.174, 1.408, 0, 0, 0.694, 0, 0.694,
14.583, 0, 0, 4.828, 16.438, 0, 0, 0, 0, 2.013, 0, 2.013, 0, 3.356, 1.342, 0, 0, 0.676, 4.698, 0, 0, 0.671,
4.027, 4.698, 0, 5.369, 2.013, 0, 4.698, 0, 1.342, 5.369, 0, 13.333, 0.667, 5.333, 0, 0, 0, 5.333, 36.000, 2.667, 0, 0, 4.698, 3.333, 0, 7.333, 14.667, 0, 7.333, 15.333, 0, 4.667, 0, 0, 0, 17.333, 2.013, 1.333, 6.000, 0, 0, 0.667, 4.667,
0, 0, 0.667, 0, 0, 0, 7.333, 0, 11.409, 4.698, 0, 0.667, 0, 0, 1.333, 0, 6.000, 0, 1.333, 0, 0, 0, 0, 12.667, 1.333,
3.333, 0, 0, 16.667, 0, 0, 0.667, 0, 0, 4.698, 8.000, 0, 0.667, 0, 3.333, 8.667, 0, 19.333, 0, 18.667, 24.000, 0,
 7.333, 0, 0, 2.000, 1.333, 0, 0, 8.000, 0, 7.333, 17.333, 0, 44.000, 2.000, 0, 1.333, 0, 52.667, 0.667, 0, 30.000, 0
14.667, 14.000, 0, 0, 0.671, 0.671, 0, 0, 10.667, 0, 0, 6.000, 0, 92.000, 2.000, 0, 12.667, 0, 0, 12.000, 0, 8.054, 0,
2.667, 0.667, 0, 0.667, 0, 0, 1.333, 0, 0, 0, 1.342, 1.342, 4.027, 24.667, 0, 24.667, 4.667, 0, 0, 30.667, 0, 0,
16.667, 0.667, 0, 32.000, 0, 3.333, 1.333, 0, 25.333, 0, 3.333, 0, 0, 0, 0, 32.215, 0, 0, 0, 0.685, 3.333, 0.667, 0,
22.148, 0, 69.128, 0, 0)
> Lm <-c(0, 2.439, 6.977, 73.333, 4.444, 75.000, 9.804, 53.704, 13.559, 3.077, 12.903, 10.390, 32.500, 15.663, 56.977,
4.301, 2.105, 1.031, 13.592, 0, 3.704, 1.709, 1.653, 0.800, 13.600, 19.200, 0, 0, 16.000, 3.200, 2.362, 23.846, 0.769,
1.550, 6.977, 0, 0, 75.188, 2.174, 0, 2.083, 0, 9.028, 53.472, 6.944, 0.694, 0, 0, 1.379, 4.110, 86.301, 28.082,
99.320, 0, 12.752, 0, 2.013, 2.013, 1.342, 2.013, 16.107, 0, 0.676, 0.671, 0, 34.899, 1.342, 25.503, 78.523, 1.342,
1.342, 97.987, 20.134, 30.872, 98.658, 2.685, 69.799, 0, 4.027, 0, 10.000, 2.000, 1.333, 76.667, 2.000, 6.000, 0, 0, 0, 0, 0.667, 17.450, 0, 61.333, 0, 0, 98.000, 3.333, 5.333, 100.000, 0.667, 96.667, 0, 0, 4.000, 8.725, 76.000, 2.000,
84.667, 0, 20.000, 6.667, 0, 2.667, 3.333, 0, 98.000, 2.000, 0.667, 95.302, 4.698, 0.671, 98.667, 8.000, 97.333, 2.000,
0, 0, 0.667, 98.000, 0, 0, 1.333, 0, 98.000, 0, 0, 0.667, 55.333, 0, 0, 98.667, 15.333, 0.667, 100.000, 0, 3.333,
94.667, 0.667, 99.333, 1.333, 0.667, 0, 0, 4.667, 0.667, 0, 74.000, 0, 16.000, 0, 19.333, 20.667, 0.667, 6.711, 0, 63.333, 0, 1.333, 71.333, 0, 2.000, 55.333, 0, 77.333, 0.667, 54.000, 0, 0.667, 2.667, 2.000, 2.000, 31.333, 0, 0
0, 98.667, 7.333, 0.667, 20.000, 0, 1.333, 0, 0.667, 19.333, 11.333, 37.333, 54.667, 0, 94.631, 0, 0.671, 0.671, 2.685, 81.208, 1.370, 9.722, 1.493, 0.714, 2.128, 7.746, 0, 1.333, 0.667, 0, 0, 1.333, 0, 0, 7.333, 0.667, 0, 4.000, 0.667,
21.333, 0.667, 3.333, 98.667, 0, 74.000, 0, 10.000, 0, 0, 19.333, 0, 5.369, 0.671, 2.667, 14.667, 0.667, 11.333,
10.000, 7.333, 2.000, 0.667, 4.667, 1.333, 0, 0, 3.333, 4.000, 6.000, 0, 95.333, 2.000, 54.667, 0, 2.013, 2.013, 9.396,
0, 0, 0.671, 1.333, 0, 0, 0, 0, 56.000, 2.000, 0, 1.333, 0, 2.000, 1.333, 0, 2.667, 0.667, 0, 100.000, 0, 0, 0, 2.000,
28.000, 13.333, 12.000, 76.667, 0, 67.333, 0, 0, 0, 0, 3.333, 0.667, 0, 98.000, 0.667, 0, 17.333, 15.333, 0.667, 0.667, 87.333, 0, 0, 63.087, 3.356, 20.134, 48.993, 1.342, 65.772, 0, 2.013, 0, 1.342, 3.356, 0)
> Mm < -c(97.436, 0, 6.977, 0, 0, 2.083, 0, 7.407, 1.695, 0, 4.839, 1.299, 0, 6.024, 0, 0, 6.316, 3.093, 2.913, 0, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0.0016, 0
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> Nm <-c(0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1.538, 0, 0, 0, 2.410, 0, 0, 0, 2.913, 0, 0.926, 0, 1.653, 0, 0, 0, 7.200, 7.200, 4.000, 0, 0, 13.846, 0, 1.550, 6.202, 0.752, 57.143, 0, 2.174, 0, 0, 0, 0.694, 0, 0.694, 15.972, 29.655, 0, 4.828, 6.164, 0, 2.055, 0, 10.204, 8.054, 100.000, 6.040, 0, 3.356, 3.356, 0, 57.432, 0.676, 2.685, 0, 0, 0.671, 3.356, 0, 0.671, 3.356, 0, 0, 2.013, 0, 3.356, 0, 0, 6.040, 0, 3.333, 0.667, 1.333, 0, 2.000, 0, 0, 42.000, 44.667, 0, 0, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.0000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0
1.342, 46.667, 0, 0, 58.667, 0, 0.667, 0.667, 0, 1.333, 0, 0.667, 87.333, 4.000, 6.711, 0, 0, 0, 0.667, 0, 0, 0, 12.667, 0, 0, 0.667, 31.333, 0, 0.671, 12.081, 0, 4.667, 0, 2.000, 3.333, 30.667, 14.000, 0, 18.667, 4.000, 0, 0, 0, 0.667, 6.000, 18.667, 0.667, 0, 0.667, 16.000, 0, 5.333, 1.333, 0, 0, 0, 0, 0, 10.667, 0, 1.333, 0.667, 100.000, 18.000,
38.000, 0, 9.396, 3.356, 56.376, 12.752, 0, 0, 27.778, 6.716, 4.286, 6.383, 0.704, 8.725, 1.333, 4.667, 2.685, 0, 0, 97.333, 0, 0, 0, 53.333, 0, 2.667, 0, 16.667, 0.667, 0, 2.667, 0, 0, 6.667, 82.000, 0, 0, 25.503, 0, 15.436, 3.333, 0,
6.667, 2.000, 0, 4.667, 0, 0, 14.000, 33.333, 2.667, 0, 1.333, 0.667, 0, 33.333, 7.333, 0, 0, 0, 0, 2.000, 4.000, 0, 0.667, 16.667, 0, 2.013, 2.013, 0, 40.268, 0, 4.698, 5.369, 97.987, 1.342, 0, 96.644)
 > \mathsf{Pm} < -\mathsf{c}(0,\,0,\,0,\,6.667,\,2.222,\,4.167,\,1.961,\,0,\,0,\,0,\,0,\,1.299,\,0,\,0,\,0,\,11.579,\,21.649,\,0,\,0,\,0.926,\,42.735,\\ 11.570,\,0,\,0,\,0.800,\,0,\,0,\,4.000,\,0,\,0,\,0,\,0,\,0,\,0,\,0,\,0,\,0.725,\,0,\,0.694,\,99.306,\,25.000,\,0,\,86.806,\,35.417,\,0,\,0,\\ 0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.694,\,99.306,\,25.000,\,0,\,86.806,\,35.417,\,0,\,0,\\ 0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.694,\,99.306,\,25.000,\,0,\,86.806,\,35.417,\,0,\,0,\\ 0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0.570,\,0
0, 0, 0, 0, 0, 1.361, 0, 0, 0, 1.342, 0, 0, 0, 0.676, 0, 0, 0, 44.966, 1.342, 0, 1.342, 0, 0, 0, 0, 0, 0, 0, 0,
          6.000, 28.667, 0, 0, 0, 0, 3.333, 0, 0, 0, 0, 0, 0, 0, 44.667, 0, 0, 0, 0, 0, 0, 0, 0, 0, 4.667, 0.671, 0, 0, 0, 0,
10.417, 0, 0, 0, 0.690, 0, 1.379, 0.685, 0, 0, 0, 2.041, 2.013, 0, 0, 0, 8.725, 13.423, 0, 0.676, 0.676, 0, 0, 0,
              0, 2.013, 31.544, 0, 51.678, 6.040, 0, 0.671, 0, 4.698, 14.094, 100.000, 2.667, 0.667, 9.333, 0, 0, 0, 2.000,
4.000, 0.667, 0, 0, 2.013, 2.000, 36.000, 0.667, 0.667, 0, 4.000, 2.667, 0, 3.333, 0, 0, 0, 14.000, 1.342, 0, 46.667
0, 2.000, 3.333, 6.000, 0, 0, 19.333, 0, 0, 1.333, 4.667, 0, 35.570, 4.027, 0, 3.333, 0, 0, 12.667, 0, 4.000, 0, 6.000,
2.667, 0, 31.333, 0, 0, 1.333, 0, 0, 13.423, 1.333, 0, 0.667, 0, 0, 2.667, 11.333, 0, 1.333, 0, 1.333, 0.667, 0,
27.333, 0, 4.000, 6.000, 0, 0, 10.067, 1.342, 0, 0, 4.667, 0, 0, 59.333, 2.000, 0.667, 1.333, 0, 3.333, 0, 0, 2.667, 0,
6.040, 0, 0, 4.027, 0, 1.370, 0, 2.985, 0, 0, 0.704, 0, 0, 12.000, 4.027, 0, 0.667, 0, 0, 0, 1.333, 0, 0, 2.000, 0,
9.333, 0, 0, 0, 0, 0, 4.000, 0.667, 0, 0, 0, 4.027, 6.667, 0, 20.667, 27.333, 0, 0, 4.000, 0.667, 0, 12.667, 0,
 32.667, 0, 8.000, 7.333, 0, 2.000, 0, 5.333, 1.342, 0, 0.671, 0, 2.013, 0, 0, 0, 0, 0, 9.333, 0, 0.667, 3.333, 0,
 13.333, 3.333, 0, 0, 6.000, 0, 0, 3.333, 2.667, 0, 0, 0, 2.000, 4.667, 0, 0, 0, 0, 8.000, 0.667, 0.667, 0, 0, 0, 0, 0,
30.667, 11.333, 4.000, 0, 0, 17.333, 2.000, 0, 3.333, 1.333, 0, 4.027, 8.054, 0, 0, 0, 0, 23.490, 0, 6.711, 0, 0.671)
> Rm <-c(2.564, 7.317, 4.651, 2.222, 0, 0, 3.922, 0, 0, 0, 1.299, 0, 1.205, 0, 6.452, 0, 2.062, 3.883, 0, 1.852,
17.094, 1.653, 1.600, 4.800, 2.400, 3.200, 1.600, 8.800, 4.800, 0, 1.538, 0, 13.953, 0, 21.805, 5.263, 0, 9.420, 2.113,
0, 0, 2.083, 0, 0, 0.694, 0, 0, 1.379, 8.219, 0, 0, 0, 0, 2.013, 0, 8.054, 0, 28.859, 3.356, 0, 0, 4.054, 0, 0,
16.107, 9.396, 2.685, 2.013, 8.725, 0, 7.383, 2.685, 0, 2.013, 0, 0, 5.369, 0, 11.333, 5.333, 10.667, 0, 2.667,
49.333, 1.333, 1.333, 0, 0, 48.322, 35.333, 0, 19.333, 14.000, 0, 41.333, 17.333, 0, 0.667, 0, 0, 0, 15.333, 2.013, 0,
8.000, 0, 0, 0.667, 17.333, 0, 0, 0.667, 1.333, 0, 1.333, 8.667, 0, 6.711, 1.342, 0, 32.000, 0, 0, 1.333, 0, 3.333,
0.667, 0.667, 1.333, 1.333, 0, 0, 6.000, 1.333, 14.667, 0, 0, 29.333, 0, 0, 8.000, 0, 0, 0, 14.000, 0, 0, 0, 7.333,
 1.333, 0, 14.000, 0, 6.000, 44.667, 0, 30.000, 0, 0, 2.000, 0, 0, 7.383, 9.333, 0, 9.333, 11.333, 0, 1.333, 1.333, 0,
5.333, 0, 2.000, 0.667, 0, 2.000, 0, 8.054, 0, 0, 8.725, 0, 1.370, 2.778, 23.881, 2.143, 1.418, 0.704, 0, 0, 0.667
11.409, 0, 5.333, 0, 0, 0, 56.000, 0.667, 0, 3.333, 0, 1.333, 0.667, 0, 0, 0, 0, 3.333, 0, 0.667, 0, 0.671, 0, 2.013,
 5.333, 0, 25.333, 14.000, 0, 0, 14.667, 0, 0, 13.333, 0, 0, 3.333, 0, 0.667, 0, 0, 3.333, 0, 4.000, 1.342, 0, 0, 0,
16.107, 0, 0, 0, 0, 0, 3.333, 0.667, 0, 7.333, 0, 0, 0, 18.667, 3.333, 0, 0, 0.667, 0, 0, 6.000, 27.333, 0.667, 1.333, 0
20.000, 3.333, 0, 0, 0, 0, 9.333, 0, 18.000, 0, 0, 0, 4.667, 11.333, 16.000, 0, 0, 5.333, 0.667, 0, 4.000, 0.667, 0,
4.027, 0.671, 0, 1.342, 0, 0, 5.369, 0, 10.067, 0, 0)
>  Sm <-c(0, 0, 0, 0, 6.667, 0, 0, 1.852, 0, 1.538, 0, 3.896, 15.000, 8.434, 1.163, 13.978, 0, 8.247, 1.942, 7.547,
8.333, 22.222, 54.545, 0, 32.000, 18.400, 5.600, 2.400, 23.200, 0, 10.236, 6.154, 0, 13.953, 23.256, 0.752, 6.015, 0
5.072, 10.563, 0, 0, 3.472, 0, 1.389, 12.500, 6.897, 0, 0.690, 2.740, 0, 4.110, 0, 37.415, 2.685, 0, 10.738, 0, 28.188,
0.671, 0, 7.432, 35.135, 17.450, 96.644, 0, 27.517, 3.356, 0, 0, 1.342, 0, 0, 0.671, 0, 3.356, 0, 0.671, 12.752, 0, 2.000, 5.333, 10.000, 0, 2.667, 0, 0, 3.333, 0.667, 10.000, 0, 10.067, 0.667, 0, 18.000, 4.000, 0, 0.667, 5.333, 0, 0.667, 0, 4.667, 11.333, 2.000, 0, 0.667, 2.000, 0, 3.333, 2.000, 0, 2.667, 0, 2.667, 0, 0, 38.000, 22.000, 0, 5.369,
 7.383, 0, 2.667, 0, 2.000, 12.000, 2.000, 28.667, 0, 19.333, 6.000, 71.333, 0, 0, 25.333, 0.667, 12.667, 0, 0, 0,
0.667, 0, 23.333, 92.667, 0, 2.685, 1.333, 0, 4.667, 0, 45.333, 4.000, 0, 0, 0, 2.667, 16.667, 0, 4.667, 0, 12.000,
20.000, 20.000, 0, 23.490, 0.667, 0, 8.000, 22.667, 0, 4.000, 20.000, 0, 2.000, 0.667, 30.667, 5.333, 0, 1.333, 0, 20.000, 22.000, 0, 0, 0, 21.477, 0, 0, 2.667, 30.000, 0, 0, 0, 3.333, 0, 25.333, 4.667, 0, 21.333, 0, 28.188,
 79.195, 0.671, 9.396, 0, 2.740, 13.889, 13.433, 5.000, 24.823, 7.746, 3.356, 1.333, 2.667, 8.054, 0, 2.667, 1.333,
79.195, 0.667, 0, 2.000, 1.333, 0, 38.000, 0, 4.667, 14.667, 0, 0.667, 0, 89.333, 18.667, 8.667, 6.667, 0, 39.597, 2.013, 2.685, 3.333, 6.667, 2.000, 1.333, 0, 18.000, 4.000, 2.000, 0, 8.000, 1.333, 19.333, 1.333, 0, 31.333, 32.667, 0, 0, 0, 64.000, 2.685, 14.765, 0, 0, 37.584, 20.134, 4.000, 36.000, 0.685, 6.667, 0.667, 4.667, 0, 0, 0, 2.667, 6.000, 37.333, 0, 4.667, 5.333, 0, 4.667, 6.000, 98.667, 45.333, 0, 2.667, 13.333, 0, 0.667, 0, 96.000, 2.000, 12.667, 12.667, 0, 1.333, 48.667, 0, 6.000, 25.333, 17.333, 0.667, 0, 45.333, 16.667, 0, 10.667, 3.333, 0, 1.342, 10.738, 0, 6.711, 0, 14.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.738, 0, 6.711, 0, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.738, 0, 6.711, 0, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.738, 0, 6.711, 0, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.738, 0, 6.711, 0, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10.667, 10
44.966, 8.054, 2.013, 4.027, 0, 0.671)

> Tm <-c(0, 2.439, 60.465, 0, 2.222, 0, 0, 0, 1.695, 4.615, 14.516, 1.299, 0, 1.205, 4.651, 2.151, 2.105, 10.309, 19.417, 0, 10.185, 1.709, 4.959, 0, 16.800, 3.200, 4.800, 1.600, 3.200, 1.600, 0, 0, 0, 5.426, 0, 0, 1.504, 0, 39.855,
4.930, 0, 0, 1.389, 0, 0.694, 6.944, 13.793, 37.241, 44.138, 2.740, 0, 0, 0, 13.605, 0.671, 0, 0, 3.356, 9.396, 0, 24.324, 3.378, 63.758, 0.671, 0, 1.342, 0, 0.671, 0, 2.013, 0, 0.671, 1.342, 0, 0.671, 0, 0.671, 0, 0.671, 02.819, 0, 9.333, 21.333, 4.000, 0, 44.000, 0, 0, 0.667, 0, 12.000, 0, 1.342, 0.667, 1.333, 2.667, 0.667, 0, 26.667, 5.333, 0, 0, 0, 0,
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1.333, 5.333, 0, 0.667, 2.667, 0, 0, 9.333, 0.667, 1.333, 0, 4.000, 0, 0, 2.000, 0, 0, 13.423, 9.396, 0, 8.000, 0, 12.667, 1.333, 0, 1.333, 0, 14.667, 0, 4.000, 0, 0, 6.667, 0, 0.667, 0, 0, 0, 0, 0, 4.000, 0, 0, 7.383, 26.000, 0, 0.667, 0, 1.333, 0.667, 0, 1.333, 0, 25.333, 4.000, 0, 2.000, 0, 0, 2.000, 2.667, 0, 3.356, 0, 0, 50.667, 0, 0, 22.000, 10.000, 0, 0, 0, 0, 0, 2.000, 0.667, 0, 4.000, 16.000, 0.667, 0, 0, 7.383, 0, 0, 15.333, 0, 0, 0, 0, 0, 0, 14.667, 0, 34.000, 1.333, 0, 2.000, 0, 2.013, 2.013, 13.423, 7.383, 0, 9.589, 4.167, 17.164, 0, 2.128, 2.817, 3.356, 0, 4.000, 11.409, 0, 2.667, 0, 0, 0, 0.667, 0, 0.667, 22.000, 0, 10.000, 55.333, 0, 0, 0, 1.333, 3.333, 5.333, 0, 0, 16.107, 20.134, 4.698, 14.667, 29.333, 2.667, 0, 0, 0, 12.667, 4.000, 0.667, 8.667, 0, 74.667, 0, 1.333, 3.333, 3.333, 0, 4.667, 0.667, 4.000, 0.14.094, 0.671, 0, 0, 0, 0, 0.00, 0.555, 1.333, 0, 1.333, 0.00, 0, 1.333, 0.4000, 96.667, 0.
20.134, 4.698, 14.667, 29.333, 2.667, 0, 0, 0, 12.667, 4.000, 0.667, 8.667, 0, 74.667, 0, 1.333, 3.333, 3.333, 3.333, 0, 4.667, 0.667, 4.000, 0, 14.094, 0.671, 0, 0, 0, 0, 0, 0.685, 1.333, 0, 1.333, 0, 0, 0, 1.333, 0, 4.000, 96.667, 0, 4.000, 0, 2.000, 2.667, 0, 2.667, 0, 3.333, 9.333, 0, 0, 0, 1.333, 1.333, 0.667, 0, 0, 0, 3.333, 0, 1.333, 2.667, 0, 4.667, 0, 2.667, 16.000, 0, 8.000, 2.667, 1.342, 6.711, 4.698, 0, 12.081, 0, 0.671, 0.671, 0, 0, 0, 0.671) > Vm <-c(0, 0, 2.326, 0, 11.111, 0, 0, 33.333, 45.763, 16.923, 17.742, 7.792, 25.000, 7.229, 1.163, 2.151, 48.421, 26.804, 1.942, 0.943, 5.556, 0, 9.917, 0, 2.400, 14.400, 4.800, 0, 4.000, 4.000, 4.724, 1.538, 0, 1.550, 0.775, 0, 0, 3.623, 0, 70.139, 0, 7.639, 43.056, 0, 0, 0, 11.724, 22.069, 2.055, 8.219, 0, 0, 0, 2.013, 0, 0, 0, 0, 0.671, 2.685, 20.556, 20.727, 0.671, 2.627, 2.772, 2.772, 0.774, 2.772, 0.774, 2.772, 0.774, 2.772, 2.772, 0.774, 2.772, 2.772, 0.774, 2.772, 2.772, 0.774, 2.772, 2.772, 0.774, 2.772, 2.772, 0.774, 2.772, 2.772, 0.774, 2.772, 2.774, 2.772, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.774, 2.
0, 0, 0)
          0, 14.400, 0, 4.000, 1.600, 0, 14.615, 25.385, 5.426, 5.426, 0, 0, 3.759, 13.768, 0, 0, 0, 1.389, 0, 0, 0, 8.966, 0, 0,
 8.904, 0, 25.342, 0, 0, 2.685, 0, 55.034, 0, 0, 0.671, 0, 0, 0, 0, 0, 0, 2.013, 0.671, 12.752, 0, 0.671, 0, 0, 2.013,
 6.000, 0, 0, 0, 0.667, 4.000, 0, 2.667, 0, 0, 0, 0.667, 0, 22.148, 0, 0, 2.667, 1.333, 0, 0, 2.000, 0, 0, 0, 0.667,
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6.040, 0, 0, 15.278, 0, 11.429, 0.709, 0, 1.342, 0.667, 0, 0, 0, 0, 0, 0, 0, 0, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667, 0.667,
 0, 0, 1.333, 0, 0, 0, 1.333, 0.667, 0, 0.667, 0, 0, 2.000, 0, 22.000, 0, 0.667, 0, 0, 0.667, 2.000, 5.333, 0, 0, 0.667,
 9.333, 0, 0, 0.667, 0, 0, 0, 0, 0, 0, 0.671, 2.013, 0, 0, 0, 0)
 5, 6, 4, 4, 8, 9, 3, 8, 7, 4, 5, 7, 6, 4, 7, 5, 9, 5, 3, 9, 4, 9, 4, 5, 7, 8, 6, 6, 9, 9, 7, 4, 7, 5, 3, 9, 4, 3, 9, 5,
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 9, 4, 4, 9, 4, 3, 9, 4, 9, 5, 2, 9, 4, 9, 5, 4, 8, 8, 9, 5, 4, 5, 6, 8, 6, 8, 9, 4, 9, 9, 6, 4, 8, 5, 9, 4, 3, 9,
                 4, 9, 7, 4, 7, 9,
                                                    4, 6, 8, 6, 5, 7, 5, 3, 6, 7, 7, 6,
                                                                                                                         4, 9, 2, 8, 4,
                                                                                                                                                      5, 6, 9, 8, 4, 8, 9, 4, 7, 8, 6, 8,
 8, 4, 3, 5, 5, 8, 4, 7, 7, 3, 6, 7, 3, 3, 1, 3, 4, 4, 5, 3, 3,
                                                                                                                         9, 7, 9, 9, 8, 5, 7, 6, 5, 6, 3, 5, 9, 8, 6, 9, 1,
 5, 5, 4, 3, 2, 5, 4, 5, 7, 5, 4, 8, 8, 3, 8, 9, 5, 8, 3, 3, 4, 9, 9, 5, 8, 9, 3, 4, 9, 5, 6, 1, 2, 6, 8, 6, 9, 3,
                                                                                                              5, 8,
7, 1,
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7, 9, 5,
                                                                                                                          5, 4,
                                                                                                                                                      5,
                                                                                                                                                            9, 5,
                                                                                                                                                                       7, 7, 9,
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 > library(generalCorr)
 Loading required package: np
 Nonparametric Kernel Methods for Mixed Datatypes (version 0.60-17)
 [vignette("np_faq",package="np") provides answers to frequently asked questions]
 [vignette("np",package="np") an overview]
 [vignette("entropy_np",package="np") an overview of entropy-based methods]
 Loading required package: xtable
Loading required package: meboot
 Loading required package: dynlm
Loading required package: zoo
Attachina package: 'zoo'
The following objects are masked from 'package:base':
```

as.Date, as.Date.numeric

Loading required package: nlme
Loading required package: tdigest

```
Loading required package: hdrcde
This is hdrcde 3.4
Loading required package: psych
Loading required package: lattice
> # For dependence
> cor.test(A, Am,alternative = "two.sided", method = "pearson", exact=FALSE )
    Pearson's product-moment correlation
data: A and Am
t = 108.06, df = 321, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to \boldsymbol{0}
95 percent confidence interval: 0.9832604 0.9891682
sample estimates:
cor
0.9865323
> gmcxy_np(A,Am)
$corxy
[1] 0.9768076
$coryx
[1] 0.9808673
> cor.test(C, Cm,alternative = "two.sided", method = "pearson", exact=FALSE )
     Pearson's product-moment correlation
data: C and Cm
t = 172.08, df = 321, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to {\bf 0}
95 percent confidence interval:
 0.9933105 0.9956791
sample estimates:
0.9946233
> gmcxy_np(C,Cm)
$corxy
[1] 0.998571
$coryx
[1] 0.9987444
> cor.test(D, Dm,alternative = "two.sided", method = "pearson", exact=FALSE )
     Pearson's product-moment correlation
data: D and Dm
t = 127.17, df = 321, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
0.9878403 0.9921381
sample estimates:
0.9902214
> gmcxy_np(D,Dm)
$corxy
[1] 0.9846439
$coryx
[1] 0.9815585
> cor.test(E, Em,alternative = "two.sided", method = "pearson", exact=FALSE )
    Pearson's product-moment correlation
data: E and Em
t = 102.21, df = 321, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to \ensuremath{\text{0}}
95 percent confidence interval: 0.9813358 0.9879187
sample estimates:
```

```
cor
0.984981
> gmcxy_np(E,Em)
$corxy
[1] 0.9733297
$coryx
[1] 0.9821826
> cor.test(F, Fm,alternative = "two.sided", method = "pearson", exact=FALSE )
     Pearson's product-moment correlation
data: F and Fm
t = 120.22, df = 321, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to {\bf 0}
95 percent confidence interval:
 0.9864189 0.9912169
sample estimates:
cor
0.9890769
> gmcxy_np(F,Fm)
$corxy
[1] 0.9794569
$coryx
[1] 0.9797753
> cor.test(G, Gm,alternative = "two.sided", method = "pearson", exact=FALSE )
     Pearson's product-moment correlation
data: G and Gm
t = 153.66, df = 321, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0 95 percent confidence interval:
 0.9916296 0.9945917
sample estimates:
cor
0.9932712
> gmcxy_np(G,Gm)
[1] 0.9900804
$coryx
[1] 0.9865401
> cor.test(H, Hm,alternative = "two.sided", method = "pearson", exact=FALSE )
     Pearson's product-moment correlation
data: H and Hm
t = 56.134, df = 321, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
    0.9413933    0.9617922</pre>
sample estimates:
       cor
0.9526531
> gmcxy_np(H,Hm)
$corxy
[1] 0.9114943
$coryx
[1] 0.9357865
> cor.test(I, Im,alternative = "two.sided", method = "pearson", exact=FALSE )
```

Pearson's product-moment correlation

```
data: I and Im
t = 158.83, df = 321, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
0.9921597 0.9949347</pre>
sample estimates:
      cor
0.9936977
> gmcxy_np(I,Im)
$corxy
[1] 0.9902279
$coryx
[1] 0.9881657
> cor.test(K, Km,alternative = "two.sided", method = "pearson", exact=FALSE )
     Pearson's product-moment correlation
data: K and Km
t = 91.502, df = 321, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to {\bf 0}
95 percent confidence interval:
 0.9768516 0.9850041
sample estimates:
      cor
0.9813644
> gmcxy_np(K,Km)
[1] 0.9646496
[1] 0.9563033
> cor.test(L, Lm,alternative = "two.sided", method = "pearson", exact=FALSE )
     Pearson's product-moment correlation
data: L and Lm
t = 236.83, df = 321, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9964537 0.9977107
sample estimates:
       cor
0.9971506
> gmcxy_np(L,Lm)
[1] 0.9951961
$coryx
[1] 0.9951056
> cor.test(M, Mm,alternative = "two.sided", method = "pearson", exact=FALSE )
     Pearson's product-moment correlation
data: M and Mm
t = 30.792, df = 321, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval: 0.8338616 0.8895592
sample estimates:
      cor
0.8643372
> gmcxy_np(M,Mm)
$corxy
[1] 0.9886185
$coryx
[1] 0.7476899
```

```
> cor.test(N, Nm,alternative = "two.sided", method = "pearson", exact=FALSE )
     Pearson's product-moment correlation
data: N and Nm
t = 158.24, df = 321, p-value < 2.2e-16 alternative hypothesis: true correlation is not equal to 0 95 percent confidence interval:
 0.9921019 0.9948973
sample estimates:
cor
0.9936512
> gmcxy_np(N,Nm)
$corxy
[1] 0.9909176
$coryx
[1] 0.9976535
> cor.test(P, Pm,alternative = "two.sided", method = "pearson", exact=FALSE )
     Pearson's product-moment correlation
data: P and Pm
t = 203.97, df = 321, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9952267 0.9969179
sample estimates:
0.9961642
> gmcxy_np(P,Pm)
$corxy
[1] 0.9930575
$coryx
[1] 0.9948413
> cor.test(Q, Qm,alternative = "two.sided", method = "pearson", exact=FALSE )
     Pearson's product-moment correlation
data: Q and Qm
t = 116.93, df = 321, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9856581 0.9907236
sample estimates:
       cor
0.9884641
> gmcxy_np(Q,Qm)
$corxy
[1] 0.979058
$coryx
[1] 0.980135
> cor.test(R, Rm,alternative = "two.sided", method = "pearson", exact=FALSE )
     Pearson's product-moment correlation
data: R and Rm
t = 69.371, df = 321, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
0.9605989 0.9744011</pre>
sample estimates:
cor
0.9682292
```

```
> gmcxy_np(R,Rm)
$corxy
[1] 0.9510369
$coryx
[1] 0.9412085
> cor.test(S, Sm,alternative = "two.sided", method = "pearson", exact=FALSE )
     Pearson's product-moment correlation
data: S and Sm
t = 83.768, df = 321, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0</pre>
95 percent confidence interval: 0.9725392 0.9821967
sample estimates:
cor
0.9778833
> gmcxy_np(S,Sm)
$corxy
[1] 0.9670036
$coryx
[1] 0.9594972
> cor.test(T, Tm,alternative = "two.sided", method = "pearson", exact=FALSE )
     Pearson's product-moment correlation
data: T and Tm
t = 102.13, df = 321, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9813095 0.9879015
sample estimates:
0.9849598
> gmcxy_np(T,Tm)
[1] 0.9843972
$coryx
[1] 0.9724789
> cor.test(V, Vm,alternative = "two.sided", method = "pearson", exact=FALSE )
     Pearson's product-moment correlation
data: V and Vm
t = 65.037, df = 321, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9554846 0.9710519
sample estimates:
       cor
0.9640872
> gmcxy_np(V,Vm)
$corxy
[1] 0.9660315
$coryx
[1] 0.9332861
> cor.test(W, Wm,alternative = "two.sided", method = "pearson", exact=FALSE )
     Pearson's product-moment correlation
data: W and Wm
t = 116.38, df = 321, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to {\bf 0}
```

```
95 percent confidence interval: 0.9855253 0.9906375
sample estimates:
       cor
0.9883571
> gmcxy_np(W,Wm)
$corxy
[1] 0.9839986
$coryx
[1] 0.9845734
> cor.test(Y, Ym,alternative = "two.sided", method = "pearson", exact=FALSE )
     Pearson's product-moment correlation
data: Y and Ym
t=34.086,\;df=321,\;p\mbox{-value}<2.2e\mbox{-}16 alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
0.8590223 0.9067139
sample estimates:
cor
0.8851715
> gmcxy_np(Y,Ym)
$corxy
[1] 0.7874353
$coryx
[1] 0.8497681
> cor.test(CS, CSm,alternative = "two.sided", method = "pearson", exact=FALSE )
     Pearson's product-moment correlation
data: CS and CSm
t = 54.539, df = 321, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to {\bf 0}
95 percent confidence interval: 0.9381897 0.9596805
sample estimates:
     cor
0.9500491
> gmcxy_np(CS,CSm)
$corxy
[1] 0.9036703
$coryx
[1] 0.9057327
```