## vorticities
| Unnamed: 0 | Unnamed: 1 | Time (ms) and Vorticity (1/s) | Unnamed: 3 | Unnamed: 4 | Unnamed: 5 | Unnamed: 6 | Unnamed: 7 | Unnamed: 8 | Unnamed: 9 | Unnamed: 10 | Unnamed: 11 | Unnamed: 12 | Unnamed: 13 | Unnamed: 14 | Unnamed: 15 | Unnamed: 16 | Unnamed: 17 | Unnamed: 18 | Unnamed: 19 | Unnamed: 20 | Unnamed: 21 | Unnamed: 22 | Unnamed: 23 | Unnamed: 24 | Unnamed: 25 | Unnamed: 26 | Unnamed: 27 | Unnamed: 28 | Unnamed: 29 | Unnamed: 30 | Unnamed: 31 | Unnamed: 32 | Unnamed: 33 | Unnamed: 34 | Unnamed: 35 | Unnamed: 36 | Unnamed: 37 | Unnamed: 38 | Unnamed: 39 | Unnamed: 40 | Unnamed: 41 | Unnamed: 42 | Unnamed: 43 | Unnamed: 44 | Unnamed: 45 | Unnamed: 46 | Unnamed: 47 | Unnamed: 48 | Unnamed: 49 | Unnamed: 50 | Unnamed: 51 | Unnamed: 52 | Unnamed: 53 | Unnamed: 54 | Unnamed: 55 | Unnamed: 56 | Unnamed: 57 | Unnamed: 58 | Unnamed: 59 | Unnamed: 60 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| x coord (m) | y coord (m) | 16.666667 | 33.333333 | 50.000000 | 66.666667 | 83.333333 | 100.000000 | 116.666667 | 133.333333 | 150.000000 | 166.666667 | 183.333333 | 200.000000 | 216.666667 | 233.333333 | 250.000000 | 266.666667 | 283.333333 | 300.000000 | 316.666667 | 333.333333 | 350.000000 | 366.666667 | 383.333333 | 400.000000 | 416.666667 | 433.333333 | 450.000000 | 466.666667 | 483.333333 | 500.000000 | 516.666667 | 533.333333 | 550.000000 | 566.666667 | 583.333333 | 600.000000 | 616.666667 | 633.333333 | 650.000000 | 666.666667 | 683.333333 | 700.000000 | 716.666667 | 733.333333 | 750.000000 | 766.666667 | 783.333333 | 800.000000 | 816.666667 | 833.333333 | 850.000000 | 866.666667 | 883.333333 | 900.000000 | 916.666667 | 933.333333 | 950.000000 | 966.666667 | 983.333333 |
| 0.059799 | 0.001778 | 16.689869 | -5.124302 | -14.033330 | -14.033330 | -14.033330 | -14.033330 | -14.033330 | -14.033330 | -14.033330 | -14.033330 | -14.033330 | 49.142837 | 49.142837 | 24.235431 | 24.235431 | 23.663307 | 23.663307 | -5.444040 | -5.444040 | 17.317952 | 17.317952 | 15.688453 | 15.688453 | -2.376991 | -2.376991 | -9.367827 | -9.367827 | 0.682018 | 0.682018 | 20.616935 | 20.616935 | -19.200753 | -19.200753 | -12.000467 | -12.000467 | -16.780409 | -16.780409 | 8.944573 | 8.944573 | 12.769725 | 12.769725 | 5.314998 | 5.314998 | 5.314998 | 5.314998 | 5.314998 | 5.314998 | 5.314998 | 5.314998 | 5.314998 | 5.314998 | 5.314998 | 5.314998 | -3.574979 | -3.574979 | -10.866678 | -10.866678 | -8.407427 | -8.407427 |
| 0.059802 | 0.003669 | -0.821437 | 13.599941 | -7.603005 | -7.603005 | -7.603005 | -7.603005 | -7.603005 | -7.603005 | -7.603005 | -7.603005 | -7.603005 | 20.701466 | 20.701466 | 25.120122 | 25.120122 | 11.736590 | 11.736590 | -3.768846 | -3.768846 | -7.272048 | -7.272048 | 0.162866 | 0.162866 | -1.087891 | -1.087891 | 1.831381 | 1.831381 | -8.080141 | -8.080141 | -1.834246 | -1.834246 | 2.830674 | 2.830674 | -3.255406 | -3.255406 | -8.654972 | -8.654972 | 2.995196 | 2.995196 | 4.896887 | 4.896887 | -1.470918 | -1.470918 | -1.470918 | -1.470918 | -1.470918 | -1.470918 | -1.470918 | -1.470918 | -1.470918 | -1.470918 | -1.470918 | -1.470918 | 3.315097 | 3.315097 | 4.269840 | 4.269840 | 3.147817 | 3.147817 |
| 0.059804 | 0.00556 | -1.104382 | 13.953328 | -6.226081 | -6.226081 | -6.226081 | -6.226081 | -6.226081 | -6.226081 | -6.226081 | -6.226081 | -6.226081 | 2.958711 | 2.958711 | 4.021196 | 4.021196 | 8.826562 | 8.826562 | -1.981390 | -1.981390 | 0.399939 | 0.399939 | 2.947073 | 2.947073 | -4.008725 | -4.008725 | -5.009965 | -5.009965 | -6.467915 | -6.467915 | -3.229271 | -3.229271 | 4.094775 | 4.094775 | -1.162890 | -1.162890 | 3.063801 | 3.063801 | 5.307261 | 5.307261 | 2.124342 | 2.124342 | 0.219808 | 0.219808 | 0.219808 | 0.219808 | 0.219808 | 0.219808 | 0.219808 | 0.219808 | 0.219808 | 0.219808 | 0.219808 | 0.219808 | 0.024481 | 0.024481 | 1.138028 | 1.138028 | 8.067645 | 8.067645 |
| 0.059807 | 0.007451 | -3.062472 | 4.097388 | -3.412106 | -3.412106 | -3.412106 | -3.412106 | -3.412106 | -3.412106 | -3.412106 | -3.412106 | -3.412106 | 5.884727 | 5.884727 | 2.354251 | 2.354251 | 4.055628 | 4.055628 | -3.903545 | -3.903545 | -2.989543 | -2.989543 | 2.505235 | 2.505235 | -0.806608 | -0.806608 | -0.671713 | -0.671713 | 0.666823 | 0.666823 | -3.001250 | -3.001250 | 3.333314 | 3.333314 | -2.665345 | -2.665345 | -1.253845 | -1.253845 | 3.558889 | 3.558889 | -1.314559 | -1.314559 | 0.928240 | 0.928240 | 0.928240 | 0.928240 | 0.928240 | 0.928240 | 0.928240 | 0.928240 | 0.928240 | 0.928240 | 0.928240 | 0.928240 | 0.081763 | 0.081763 | -0.057995 | -0.057995 | 5.249805 | 5.249805 |
| 0.059809 | 0.009342 | -0.273391 | 5.408085 | -1.130664 | -1.130664 | -1.130664 | -1.130664 | -1.130664 | -1.130664 | -1.130664 | -1.130664 | -1.130664 | 3.763312 | 3.763312 | 1.522926 | 1.522926 | 1.403147 | 1.403147 | 2.259354 | 2.259354 | -3.237205 | -3.237205 | -0.409335 | -0.409335 | -0.075365 | -0.075365 | 3.392303 | 3.392303 | 0.779381 | 0.779381 | 0.297606 | 0.297606 | 0.824462 | 0.824462 | -1.082557 | -1.082557 | 2.466082 | 2.466082 | 3.715706 | 3.715706 | -0.313945 | -0.313945 | -0.508261 | -0.508261 | -0.508261 | -0.508261 | -0.508261 | -0.508261 | -0.508261 | -0.508261 | -0.508261 | -0.508261 | -0.508261 | -0.508261 | 0.345735 | 0.345735 | -0.059841 | -0.059841 | -6.324857 | -6.324857 |
| 0.059811 | 0.011233 | 1.422877 | 4.345807 | 1.206634 | 1.206634 | 1.206634 | 1.206634 | 1.206634 | 1.206634 | 1.206634 | 1.206634 | 1.206634 | 1.616543 | 1.616543 | 6.944544 | 6.944544 | -2.359681 | -2.359681 | 1.606493 | 1.606493 | -0.623141 | -0.623141 | -0.544115 | -0.544115 | 0.710001 | 0.710001 | 0.520754 | 0.520754 | -4.603767 | -4.603767 | -1.593384 | -1.593384 | -0.216865 | -0.216865 | 0.626090 | 0.626090 | 4.799631 | 4.799631 | 1.522210 | 1.522210 | 9.259123 | 9.259123 | -2.504699 | -2.504699 | -2.504699 | -2.504699 | -2.504699 | -2.504699 | -2.504699 | -2.504699 | -2.504699 | -2.504699 | -2.504699 | -2.504699 | -1.434695 | -1.434695 | 1.512293 | 1.512293 | -9.358277 | -9.358277 |
| 0.059814 | 0.013124 | 1.298164 | 3.352114 | 0.643990 | 0.643990 | 0.643990 | 0.643990 | 0.643990 | 0.643990 | 0.643990 | 0.643990 | 0.643990 | 0.369024 | 0.369024 | 6.856039 | 6.856039 | 3.588727 | 3.588727 | 2.761484 | 2.761484 | 2.817447 | 2.817447 | 0.476923 | 0.476923 | 1.080861 | 1.080861 | -1.541661 | -1.541661 | -2.723904 | -2.723904 | -0.188348 | -0.188348 | -1.975987 | -1.975987 | -4.041670 | -4.041670 | 1.746128 | 1.746128 | -0.293757 | -0.293757 | 0.240380 | 0.240380 | -3.824534 | -3.824534 | -3.824534 | -3.824534 | -3.824534 | -3.824534 | -3.824534 | -3.824534 | -3.824534 | -3.824534 | -3.824534 | -3.824534 | 4.076106 | 4.076106 | -1.278769 | -1.278769 | -0.185569 | -0.185569 |
| 0.059816 | 0.015015 | -0.903924 | 4.612230 | 3.598174 | 3.598174 | 3.598174 | 3.598174 | 3.598174 | 3.598174 | 3.598174 | 3.598174 | 3.598174 | -0.946117 | -0.946117 | 1.911379 | 1.911379 | 0.759419 | 0.759419 | 1.955427 | 1.955427 | 2.263113 | 2.263113 | 1.378179 | 1.378179 | 2.222575 | 2.222575 | 3.465087 | 3.465087 | -0.513938 | -0.513938 | -0.997849 | -0.997849 | -0.431761 | -0.431761 | -6.126791 | -6.126791 | -3.446252 | -3.446252 | 4.018931 | 4.018931 | 2.235433 | 2.235433 | -6.854973 | -6.854973 | -6.854973 | -6.854973 | -6.854973 | -6.854973 | -6.854973 | -6.854973 | -6.854973 | -6.854973 | -6.854973 | -6.854973 | 4.226361 | 4.226361 | -2.159260 | -2.159260 | -0.525674 | -0.525674 |
| 0.059819 | 0.016906 | -1.285187 | 0.905243 | 3.368662 | 3.368662 | 3.368662 | 3.368662 | 3.368662 | 3.368662 | 3.368662 | 3.368662 | 3.368662 | -1.617193 | -1.617193 | -0.247006 | -0.247006 | 1.454837 | 1.454837 | -0.142539 | -0.142539 | 0.329418 | 0.329418 | 1.028874 | 1.028874 | 3.786976 | 3.786976 | 1.562925 | 1.562925 | -1.252215 | -1.252215 | 1.302268 | 1.302268 | -0.441148 | -0.441148 | -8.418232 | -8.418232 | -4.708178 | -4.708178 | 1.946433 | 1.946433 | 5.860474 | 5.860474 | 0.457651 | 0.457651 | 0.457651 | 0.457651 | 0.457651 | 0.457651 | 0.457651 | 0.457651 | 0.457651 | 0.457651 | 0.457651 | 0.457651 | 2.655606 | 2.655606 | -0.407572 | -0.407572 | -0.600736 | -0.600736 |
| 0.059821 | 0.018797 | 0.075267 | 2.521129 | 2.812632 | 2.812632 | 2.812632 | 2.812632 | 2.812632 | 2.812632 | 2.812632 | 2.812632 | 2.812632 | 1.940867 | 1.940867 | 1.755130 | 1.755130 | 1.857647 | 1.857647 | -1.111142 | -1.111142 | 2.194187 | 2.194187 | 1.635005 | 1.635005 | 0.310629 | 0.310629 | -1.906716 | -1.906716 | 0.557688 | 0.557688 | 1.077481 | 1.077481 | 1.461422 | 1.461422 | -2.930215 | -2.930215 | -0.608877 | -0.608877 | 3.151382 | 3.151382 | 3.041314 | 3.041314 | 2.109494 | 2.109494 | 2.109494 | 2.109494 | 2.109494 | 2.109494 | 2.109494 | 2.109494 | 2.109494 | 2.109494 | 2.109494 | 2.109494 | 1.008671 | 1.008671 | -1.385548 | -1.385548 | -1.326441 | -1.326441 |
| 0.059823 | 0.020688 | -0.233221 | 4.788006 | 2.044892 | 2.044892 | 2.044892 | 2.044892 | 2.044892 | 2.044892 | 2.044892 | 2.044892 | 2.044892 | 1.060166 | 1.060166 | 3.783431 | 3.783431 | 0.762300 | 0.762300 | -0.251101 | -0.251101 | 3.986598 | 3.986598 | 0.891703 | 0.891703 | 0.480632 | 0.480632 | -0.968507 | -0.968507 | 2.661569 | 2.661569 | 0.471811 | 0.471811 | 1.254366 | 1.254366 | 1.145632 | 1.145632 | -0.681316 | -0.681316 | 2.896816 | 2.896816 | 1.725206 | 1.725206 | 2.793527 | 2.793527 | 2.793527 | 2.793527 | 2.793527 | 2.793527 | 2.793527 | 2.793527 | 2.793527 | 2.793527 | 2.793527 | 2.793527 | -0.403240 | -0.403240 | -1.788130 | -1.788130 | 0.042421 | 0.042421 |
| 0.059826 | 0.022579 | 2.402395 | 2.603285 | 1.565098 | 1.565098 | 1.565098 | 1.565098 | 1.565098 | 1.565098 | 1.565098 | 1.565098 | 1.565098 | 1.485987 | 1.485987 | 5.052716 | 5.052716 | 0.611201 | 0.611201 | 0.720648 | 0.720648 | 2.367299 | 2.367299 | 0.694199 | 0.694199 | 2.413577 | 2.413577 | 0.881625 | 0.881625 | 3.325774 | 3.325774 | 0.239428 | 0.239428 | 5.541851 | 5.541851 | 1.158329 | 1.158329 | 0.613345 | 0.613345 | 0.931540 | 0.931540 | 2.157520 | 2.157520 | 1.579974 | 1.579974 | 1.579974 | 1.579974 | 1.579974 | 1.579974 | 1.579974 | 1.579974 | 1.579974 | 1.579974 | 1.579974 | 1.579974 | 1.762941 | 1.762941 | 0.752182 | 0.752182 | 5.796226 | 5.796226 |
| 0.059828 | 0.02447 | -0.747758 | 0.804649 | 3.970048 | 3.970048 | 3.970048 | 3.970048 | 3.970048 | 3.970048 | 3.970048 | 3.970048 | 3.970048 | 1.921588 | 1.921588 | -2.378290 | -2.378290 | 1.458042 | 1.458042 | -2.026973 | -2.026973 | 2.109666 | 2.109666 | 1.228376 | 1.228376 | 2.202002 | 2.202002 | -1.309790 | -1.309790 | 9.099824 | 9.099824 | 1.497265 | 1.497265 | 0.047918 | 0.047918 | 1.339179 | 1.339179 | -0.453203 | -0.453203 | 2.103853 | 2.103853 | -0.013150 | -0.013150 | 3.178154 | 3.178154 | 3.178154 | 3.178154 | 3.178154 | 3.178154 | 3.178154 | 3.178154 | 3.178154 | 3.178154 | 3.178154 | 3.178154 | 1.072948 | 1.072948 | 0.437129 | 0.437129 | -3.288362 | -3.288362 |
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| 0.059835 | 0.030143 | -0.969931 | 2.118559 | -0.719874 | -0.719874 | -0.719874 | -0.719874 | -0.719874 | -0.719874 | -0.719874 | -0.719874 | -0.719874 | 1.336361 | 1.336361 | 2.380668 | 2.380668 | 2.646651 | 2.646651 | -1.785656 | -1.785656 | 0.124162 | 0.124162 | -1.247739 | -1.247739 | -3.837314 | -3.837314 | -0.808645 | -0.808645 | 0.475957 | 0.475957 | 2.790193 | 2.790193 | 2.663064 | 2.663064 | 0.635871 | 0.635871 | 2.226418 | 2.226418 | 3.379526 | 3.379526 | -0.227324 | -0.227324 | -0.424334 | -0.424334 | -0.424334 | -0.424334 | -0.424334 | -0.424334 | -0.424334 | -0.424334 | -0.424334 | -0.424334 | -0.424334 | -0.424334 | 1.231812 | 1.231812 | 3.331840 | 3.331840 | 4.817626 | 4.817626 |
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| 0.05984 | 0.033925 | 3.778162 | 0.010016 | -1.370757 | -1.370757 | -1.370757 | -1.370757 | -1.370757 | -1.370757 | -1.370757 | -1.370757 | -1.370757 | 0.711516 | 0.711516 | 0.577111 | 0.577111 | -0.434531 | -0.434531 | -1.939341 | -1.939341 | -0.143623 | -0.143623 | -1.491353 | -1.491353 | 0.962878 | 0.962878 | 0.233826 | 0.233826 | 2.400174 | 2.400174 | 1.676009 | 1.676009 | 1.954041 | 1.954041 | 0.190090 | 0.190090 | 1.064788 | 1.064788 | 0.353756 | 0.353756 | -1.302078 | -1.302078 | 1.233194 | 1.233194 | 1.233194 | 1.233194 | 1.233194 | 1.233194 | 1.233194 | 1.233194 | 1.233194 | 1.233194 | 1.233194 | 1.233194 | -0.070456 | -0.070456 | 3.056863 | 3.056863 | 2.753421 | 2.753421 |
| 0.059843 | 0.035816 | 2.132773 | -1.587451 | -0.050277 | -0.050277 | -0.050277 | -0.050277 | -0.050277 | -0.050277 | -0.050277 | -0.050277 | -0.050277 | 0.171277 | 0.171277 | -0.337421 | -0.337421 | 1.917377 | 1.917377 | -2.207930 | -2.207930 | 1.934610 | 1.934610 | 1.775171 | 1.775171 | 0.049835 | 0.049835 | 0.338854 | 0.338854 | -0.597084 | -0.597084 | -0.608993 | -0.608993 | 2.136283 | 2.136283 | 0.226356 | 0.226356 | 0.598817 | 0.598817 | -0.084216 | -0.084216 | -1.400735 | -1.400735 | 1.740687 | 1.740687 | 1.740687 | 1.740687 | 1.740687 | 1.740687 | 1.740687 | 1.740687 | 1.740687 | 1.740687 | 1.740687 | 1.740687 | 1.072566 | 1.072566 | 3.080430 | 3.080430 | -0.537899 | -0.537899 |
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| 0.059852 | 0.04338 | -1.261263 | -1.056946 | 2.454272 | 2.454272 | 2.454272 | 2.454272 | 2.454272 | 2.454272 | 2.454272 | 2.454272 | 2.454272 | 1.333551 | 1.333551 | -2.026621 | -2.026621 | 0.055403 | 0.055403 | 0.925057 | 0.925057 | 1.599928 | 1.599928 | 2.587650 | 2.587650 | 5.407526 | 5.407526 | 0.663102 | 0.663102 | 1.030934 | 1.030934 | 0.320805 | 0.320805 | 0.864325 | 0.864325 | -3.726389 | -3.726389 | -1.169808 | -1.169808 | -0.016426 | -0.016426 | -3.255497 | -3.255497 | 3.448335 | 3.448335 | 3.448335 | 3.448335 | 3.448335 | 3.448335 | 3.448335 | 3.448335 | 3.448335 | 3.448335 | 3.448335 | 3.448335 | -0.406327 | -0.406327 | 0.749248 | 0.749248 | 0.679858 | 0.679858 |
| 0.059855 | 0.045271 | 2.694838 | 0.831997 | 1.623119 | 1.623119 | 1.623119 | 1.623119 | 1.623119 | 1.623119 | 1.623119 | 1.623119 | 1.623119 | -0.291496 | -0.291496 | -0.502560 | -0.502560 | 0.063848 | 0.063848 | -1.087657 | -1.087657 | 2.678916 | 2.678916 | 2.470350 | 2.470350 | 5.450416 | 5.450416 | 0.121000 | 0.121000 | -1.390655 | -1.390655 | 1.218098 | 1.218098 | 1.712609 | 1.712609 | 0.449113 | 0.449113 | -0.885784 | -0.885784 | -0.085759 | -0.085759 | -0.032728 | -0.032728 | 5.447143 | 5.447143 | 5.447143 | 5.447143 | 5.447143 | 5.447143 | 5.447143 | 5.447143 | 5.447143 | 5.447143 | 5.447143 | 5.447143 | 1.617324 | 1.617324 | -3.708780 | -3.708780 | -0.843162 | -0.843162 |
| 0.059857 | 0.047162 | 2.051224 | 2.131752 | 0.265031 | 0.265031 | 0.265031 | 0.265031 | 0.265031 | 0.265031 | 0.265031 | 0.265031 | 0.265031 | -1.069484 | -1.069484 | -0.242371 | -0.242371 | 0.944668 | 0.944668 | 0.292131 | 0.292131 | -1.537656 | -1.537656 | 1.911079 | 1.911079 | 1.672157 | 1.672157 | -1.745466 | -1.745466 | 1.164407 | 1.164407 | 1.545628 | 1.545628 | 0.913783 | 0.913783 | -0.044705 | -0.044705 | -0.860896 | -0.860896 | 1.259793 | 1.259793 | 4.576338 | 4.576338 | 1.987418 | 1.987418 | 1.987418 | 1.987418 | 1.987418 | 1.987418 | 1.987418 | 1.987418 | 1.987418 | 1.987418 | 1.987418 | 1.987418 | 2.634254 | 2.634254 | -1.066843 | -1.066843 | -0.757631 | -0.757631 |
| 0.059859 | 0.049053 | 0.335213 | 1.435823 | -0.010071 | -0.010071 | -0.010071 | -0.010071 | -0.010071 | -0.010071 | -0.010071 | -0.010071 | -0.010071 | -2.619350 | -2.619350 | -0.393934 | -0.393934 | 1.854520 | 1.854520 | -0.108614 | -0.108614 | 1.660258 | 1.660258 | -1.651268 | -1.651268 | -0.412824 | -0.412824 | 0.641474 | 0.641474 | 0.635750 | 0.635750 | 0.565693 | 0.565693 | -2.204524 | -2.204524 | -0.331411 | -0.331411 | -0.985363 | -0.985363 | 1.379469 | 1.379469 | -0.004693 | -0.004693 | 2.107858 | 2.107858 | 2.107858 | 2.107858 | 2.107858 | 2.107858 | 2.107858 | 2.107858 | 2.107858 | 2.107858 | 2.107858 | 2.107858 | 3.114764 | 3.114764 | 3.080126 | 3.080126 | 2.230580 | 2.230580 |
| 0.059862 | 0.050944 | 0.370764 | -2.180089 | -0.133797 | -0.133797 | -0.133797 | -0.133797 | -0.133797 | -0.133797 | -0.133797 | -0.133797 | -0.133797 | 0.040805 | 0.040805 | -0.015845 | -0.015845 | -0.215502 | -0.215502 | -1.086137 | -1.086137 | 2.011775 | 2.011775 | -0.764165 | -0.764165 | -0.274059 | -0.274059 | 0.277041 | 0.277041 | -0.474661 | -0.474661 | -0.692092 | -0.692092 | -1.569699 | -1.569699 | 0.679902 | 0.679902 | 0.402905 | 0.402905 | 1.636040 | 1.636040 | 0.901655 | 0.901655 | 1.332689 | 1.332689 | 1.332689 | 1.332689 | 1.332689 | 1.332689 | 1.332689 | 1.332689 | 1.332689 | 1.332689 | 1.332689 | 1.332689 | -1.631503 | -1.631503 | 10.910200 | 10.910200 | 2.835850 | 2.835850 |
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| 0.079967 | 0.102812 | 0.327447 | 1.598260 | 1.556449 | 1.556449 | 1.556449 | 1.556449 | 1.556449 | 1.556449 | 1.556449 | 1.556449 | 1.556449 | 0.849303 | 0.849303 | 0.631656 | 0.631656 | -0.633294 | -0.633294 | -1.380069 | -1.380069 | -0.045523 | -0.045523 | -0.898550 | -0.898550 | 2.100042 | 2.100042 | 3.633707 | 3.633707 | 3.823143 | 3.823143 | 2.307161 | 2.307161 | 1.268302 | 1.268302 | 1.140536 | 1.140536 | -1.100715 | -1.100715 | -0.724646 | -0.724646 | -0.188981 | -0.188981 | -0.748318 | -0.748318 | -0.748318 | -0.748318 | -0.748318 | -0.748318 | -0.748318 | -0.748318 | -0.748318 | -0.748318 | -0.748318 | -0.748318 | -0.746194 | -0.746194 | -1.021582 | -1.021582 | 1.090200 | 1.090200 |
| 0.081858 | 0.102817 | 0.349517 | 2.479663 | 2.187725 | 2.187725 | 2.187725 | 2.187725 | 2.187725 | 2.187725 | 2.187725 | 2.187725 | 2.187725 | -0.267111 | -0.267111 | 0.983446 | 0.983446 | 1.751596 | 1.751596 | -2.314193 | -2.314193 | -2.780631 | -2.780631 | -3.322567 | -3.322567 | 2.759280 | 2.759280 | 1.364639 | 1.364639 | 3.365405 | 3.365405 | 3.012401 | 3.012401 | -0.191332 | -0.191332 | -2.370405 | -2.370405 | 0.969438 | 0.969438 | 1.311897 | 1.311897 | -0.537250 | -0.537250 | 0.021375 | 0.021375 | 0.021375 | 0.021375 | 0.021375 | 0.021375 | 0.021375 | 0.021375 | 0.021375 | 0.021375 | 0.021375 | 0.021375 | -3.464951 | -3.464951 | -1.680948 | -1.680948 | -3.364376 | -3.364376 |
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| 0.1095 | 0.069978 | 3.735905 | 21.167073 | -3.309912 | -3.309912 | -3.309912 | -3.309912 | -3.309912 | -3.309912 | -3.309912 | -3.309912 | -3.309912 | -1.717061 | -1.717061 | 3.896734 | 3.896734 | -0.580808 | -0.580808 | -7.058967 | -7.058967 | 0.483651 | 0.483651 | -1.007638 | -1.007638 | -1.470848 | -1.470848 | 12.567266 | 12.567266 | 7.363499 | 7.363499 | 5.112444 | 5.112444 | 4.780827 | 4.780827 | 3.474111 | 3.474111 | -0.520294 | -0.520294 | -1.900083 | -1.900083 | -8.090335 | -8.090335 | -0.212083 | -0.212083 | -0.212083 | -0.212083 | -0.212083 | -0.212083 | -0.212083 | -0.212083 | -0.212083 | -0.212083 | -0.212083 | -0.212083 | 1.809501 | 1.809501 | -0.411177 | -0.411177 | 13.234259 | 13.234259 |
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| 0.0657 | 0.037302 | 0.844405 | 1.001724 | 0.984038 | 0.984038 | 0.984038 | 0.984038 | 0.984038 | 0.984038 | 0.984038 | 0.984038 | 0.984038 | 0.441284 | 0.441284 | -1.533932 | -1.533932 | -1.893607 | -1.893607 | -0.844337 | -0.844337 | 0.081083 | 0.081083 | -1.162791 | -1.162791 | 0.066850 | 0.066850 | -0.088470 | -0.088470 | 4.812928 | 4.812928 | 0.540250 | 0.540250 | 0.169171 | 0.169171 | 1.892888 | 1.892888 | 0.382638 | 0.382638 | -0.040035 | -0.040035 | 1.605722 | 1.605722 | 1.034562 | 1.034562 | 1.034562 | 1.034562 | 1.034562 | 1.034562 | 1.034562 | 1.034562 | 1.034562 | 1.034562 | 1.034562 | 1.034562 | -0.689911 | -0.689911 | -1.725417 | -1.725417 | 0.577096 | 0.577096 |
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| 0.06573 | 0.044866 | 0.430415 | 0.280363 | -0.059334 | -0.059334 | -0.059334 | -0.059334 | -0.059334 | -0.059334 | -0.059334 | -0.059334 | -0.059334 | -0.827882 | -0.827882 | 1.802695 | 1.802695 | 3.122911 | 3.122911 | 0.809149 | 0.809149 | -1.582891 | -1.582891 | -1.703302 | -1.703302 | -3.090168 | -3.090168 | -0.790837 | -0.790837 | -1.128271 | -1.128271 | -0.820847 | -0.820847 | -0.589251 | -0.589251 | 0.047819 | 0.047819 | 0.024442 | 0.024442 | -1.180182 | -1.180182 | -0.793344 | -0.793344 | -0.454981 | -0.454981 | -0.454981 | -0.454981 | -0.454981 | -0.454981 | -0.454981 | -0.454981 | -0.454981 | -0.454981 | -0.454981 | -0.454981 | 0.480262 | 0.480262 | 0.816835 | 0.816835 | -0.672616 | -0.672616 |
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| 0.065828 | 0.069448 | 1.995160 | 2.177413 | 0.357207 | 0.357207 | 0.357207 | 0.357207 | 0.357207 | 0.357207 | 0.357207 | 0.357207 | 0.357207 | 2.213075 | 2.213075 | 0.034247 | 0.034247 | 0.451306 | 0.451306 | 1.104068 | 1.104068 | 2.738253 | 2.738253 | 4.462262 | 4.462262 | 0.283478 | 0.283478 | -0.673770 | -0.673770 | 0.978659 | 0.978659 | 1.720100 | 1.720100 | 0.557039 | 0.557039 | 0.761854 | 0.761854 | 1.768840 | 1.768840 | 0.143070 | 0.143070 | -0.940995 | -0.940995 | -0.016941 | -0.016941 | -0.016941 | -0.016941 | -0.016941 | -0.016941 | -0.016941 | -0.016941 | -0.016941 | -0.016941 | -0.016941 | -0.016941 | -0.469795 | -0.469795 | -0.561369 | -0.561369 | -0.357049 | -0.357049 |
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| 0.065843 | 0.07323 | 0.266867 | 1.453442 | -0.475771 | -0.475771 | -0.475771 | -0.475771 | -0.475771 | -0.475771 | -0.475771 | -0.475771 | -0.475771 | 0.025158 | 0.025158 | 0.805227 | 0.805227 | 0.031712 | 0.031712 | -0.940531 | -0.940531 | 1.212343 | 1.212343 | 0.070157 | 0.070157 | 0.212415 | 0.212415 | -1.754238 | -1.754238 | -0.862430 | -0.862430 | -0.281737 | -0.281737 | -0.162122 | -0.162122 | 2.728005 | 2.728005 | -0.927860 | -0.927860 | 0.039321 | 0.039321 | 1.408933 | 1.408933 | 3.999028 | 3.999028 | 3.999028 | 3.999028 | 3.999028 | 3.999028 | 3.999028 | 3.999028 | 3.999028 | 3.999028 | 3.999028 | 3.999028 | -0.676632 | -0.676632 | -0.617449 | -0.617449 | -0.720667 | -0.720667 |
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| 0.065873 | 0.080794 | 1.427167 | -4.168450 | 0.981147 | 0.981147 | 0.981147 | 0.981147 | 0.981147 | 0.981147 | 0.981147 | 0.981147 | 0.981147 | -0.652373 | -0.652373 | 0.215702 | 0.215702 | -3.475730 | -3.475730 | 1.510307 | 1.510307 | -1.632486 | -1.632486 | -0.667727 | -0.667727 | 1.858885 | 1.858885 | -1.607197 | -1.607197 | 1.047069 | 1.047069 | 1.036578 | 1.036578 | -0.039139 | -0.039139 | -3.185377 | -3.185377 | 7.604211 | 7.604211 | -0.370110 | -0.370110 | -1.260055 | -1.260055 | 1.258977 | 1.258977 | 1.258977 | 1.258977 | 1.258977 | 1.258977 | 1.258977 | 1.258977 | 1.258977 | 1.258977 | 1.258977 | 1.258977 | -0.203154 | -0.203154 | 1.235509 | 1.235509 | -0.037566 | -0.037566 |
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| 0.073166 | 0.098153 | 0.953887 | -1.131062 | 1.047194 | 1.047194 | 1.047194 | 1.047194 | 1.047194 | 1.047194 | 1.047194 | 1.047194 | 1.047194 | -3.331205 | -3.331205 | 0.211102 | 0.211102 | -0.923321 | -0.923321 | 0.946269 | 0.946269 | 2.631537 | 2.631537 | -0.669098 | -0.669098 | -2.444685 | -2.444685 | -1.145515 | -1.145515 | 0.250661 | 0.250661 | 0.569729 | 0.569729 | -0.172585 | -0.172585 | -0.070504 | -0.070504 | -1.043911 | -1.043911 | -0.507403 | -0.507403 | 0.917119 | 0.917119 | 0.858225 | 0.858225 | 0.858225 | 0.858225 | 0.858225 | 0.858225 | 0.858225 | 0.858225 | 0.858225 | 0.858225 | 0.858225 | 0.858225 | 0.638623 | 0.638623 | -0.290542 | -0.290542 | 0.197562 | 0.197562 |
| 0.075057 | 0.098153 | -0.573628 | -2.312505 | 1.858890 | 1.858890 | 1.858890 | 1.858890 | 1.858890 | 1.858890 | 1.858890 | 1.858890 | 1.858890 | -1.563385 | -1.563385 | -0.534959 | -0.534959 | -0.184847 | -0.184847 | 0.895422 | 0.895422 | 2.187134 | 2.187134 | -1.358742 | -1.358742 | -0.667836 | -0.667836 | 2.742203 | 2.742203 | 0.140995 | 0.140995 | 0.582967 | 0.582967 | -0.479077 | -0.479077 | -1.027574 | -1.027574 | -1.600807 | -1.600807 | -0.869610 | -0.869610 | 0.225469 | 0.225469 | 0.115960 | 0.115960 | 0.115960 | 0.115960 | 0.115960 | 0.115960 | 0.115960 | 0.115960 | 0.115960 | 0.115960 | 0.115960 | 0.115960 | 1.139966 | 1.139966 | 1.818319 | 1.818319 | -1.125078 | -1.125078 |
| 0.076948 | 0.098153 | -1.726419 | -1.754429 | 0.155681 | 0.155681 | 0.155681 | 0.155681 | 0.155681 | 0.155681 | 0.155681 | 0.155681 | 0.155681 | 1.919475 | 1.919475 | 0.327202 | 0.327202 | 1.147256 | 1.147256 | 1.435765 | 1.435765 | 1.907353 | 1.907353 | -0.321665 | -0.321665 | 0.595234 | 0.595234 | 0.988819 | 0.988819 | -0.209227 | -0.209227 | 0.439749 | 0.439749 | -0.060442 | -0.060442 | 0.747169 | 0.747169 | -0.822518 | -0.822518 | -0.684121 | -0.684121 | -0.984565 | -0.984565 | -3.581849 | -3.581849 | -3.581849 | -3.581849 | -3.581849 | -3.581849 | -3.581849 | -3.581849 | -3.581849 | -3.581849 | -3.581849 | -3.581849 | 2.102729 | 2.102729 | -0.484305 | -0.484305 | -0.553372 | -0.553372 |
| 0.078839 | 0.098153 | 0.634335 | -0.375278 | -0.146275 | -0.146275 | -0.146275 | -0.146275 | -0.146275 | -0.146275 | -0.146275 | -0.146275 | -0.146275 | -2.321482 | -2.321482 | -1.155001 | -1.155001 | 2.204846 | 2.204846 | 0.005267 | 0.005267 | 0.026101 | 0.026101 | 0.578542 | 0.578542 | -0.343001 | -0.343001 | -0.444369 | -0.444369 | -1.019831 | -1.019831 | 3.083876 | 3.083876 | 2.100788 | 2.100788 | 2.346070 | 2.346070 | 1.059084 | 1.059084 | -1.085012 | -1.085012 | -3.149473 | -3.149473 | -0.419379 | -0.419379 | -0.419379 | -0.419379 | -0.419379 | -0.419379 | -0.419379 | -0.419379 | -0.419379 | -0.419379 | -0.419379 | -0.419379 | 0.936669 | 0.936669 | -3.700732 | -3.700732 | -0.381850 | -0.381850 |
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| 0.082621 | 0.098153 | 7.597034 | -0.864763 | -0.407443 | -0.407443 | -0.407443 | -0.407443 | -0.407443 | -0.407443 | -0.407443 | -0.407443 | -0.407443 | 0.895633 | 0.895633 | 6.842579 | 6.842579 | -3.468790 | -3.468790 | 0.163003 | 0.163003 | -1.484104 | -1.484104 | -0.357771 | -0.357771 | -0.102649 | -0.102649 | -5.917240 | -5.917240 | 0.184755 | 0.184755 | 0.371105 | 0.371105 | 0.321939 | 0.321939 | 1.695719 | 1.695719 | 2.188606 | 2.188606 | 0.750055 | 0.750055 | -0.132042 | -0.132042 | 0.249830 | 0.249830 | 0.249830 | 0.249830 | 0.249830 | 0.249830 | 0.249830 | 0.249830 | 0.249830 | 0.249830 | 0.249830 | 0.249830 | 0.030695 | 0.030695 | -1.051806 | -1.051806 | 1.108965 | 1.108965 |
| 0.084512 | 0.098153 | -7.051213 | 0.632885 | -0.609571 | -0.609571 | -0.609571 | -0.609571 | -0.609571 | -0.609571 | -0.609571 | -0.609571 | -0.609571 | 1.454798 | 1.454798 | -0.863344 | -0.863344 | -2.673791 | -2.673791 | -0.098480 | -0.098480 | -2.972307 | -2.972307 | 0.309175 | 0.309175 | 0.698639 | 0.698639 | -5.130482 | -5.130482 | 0.124649 | 0.124649 | 2.331832 | 2.331832 | -0.726583 | -0.726583 | 3.434751 | 3.434751 | -0.533475 | -0.533475 | -1.413683 | -1.413683 | -3.225752 | -3.225752 | -0.722882 | -0.722882 | -0.722882 | -0.722882 | -0.722882 | -0.722882 | -0.722882 | -0.722882 | -0.722882 | -0.722882 | -0.722882 | -0.722882 | -0.718906 | -0.718906 | 0.195603 | 0.195603 | 2.233739 | 2.233739 |
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| 0.088294 | 0.098153 | 3.801668 | 0.662347 | 0.956864 | 0.956864 | 0.956864 | 0.956864 | 0.956864 | 0.956864 | 0.956864 | 0.956864 | 0.956864 | 0.335709 | 0.335709 | -1.434946 | -1.434946 | 1.496964 | 1.496964 | 0.241446 | 0.241446 | 1.579120 | 1.579120 | -1.755265 | -1.755265 | 0.185759 | 0.185759 | 4.642145 | 4.642145 | -3.784460 | -3.784460 | -4.568308 | -4.568308 | 0.946074 | 0.946074 | 3.126560 | 3.126560 | -0.292388 | -0.292388 | 1.393804 | 1.393804 | 1.107155 | 1.107155 | -1.445151 | -1.445151 | -1.445151 | -1.445151 | -1.445151 | -1.445151 | -1.445151 | -1.445151 | -1.445151 | -1.445151 | -1.445151 | -1.445151 | -4.481871 | -4.481871 | 3.369064 | 3.369064 | 1.023044 | 1.023044 |
| 0.090185 | 0.098153 | -0.049956 | 0.760587 | 2.930925 | 2.930925 | 2.930925 | 2.930925 | 2.930925 | 2.930925 | 2.930925 | 2.930925 | 2.930925 | -0.164048 | -0.164048 | -0.600960 | -0.600960 | -2.815020 | -2.815020 | 4.118836 | 4.118836 | 2.074118 | 2.074118 | -0.920119 | -0.920119 | -0.251105 | -0.251105 | 5.369836 | 5.369836 | -1.665710 | -1.665710 | -4.833428 | -4.833428 | 0.042126 | 0.042126 | -7.364011 | -7.364011 | -1.106757 | -1.106757 | 8.328005 | 8.328005 | 3.823429 | 3.823429 | -1.875648 | -1.875648 | -1.875648 | -1.875648 | -1.875648 | -1.875648 | -1.875648 | -1.875648 | -1.875648 | -1.875648 | -1.875648 | -1.875648 | -0.847206 | -0.847206 | 3.370037 | 3.370037 | -0.613678 | -0.613678 |
| 0.092076 | 0.098153 | 1.931020 | 2.687369 | 0.843083 | 0.843083 | 0.843083 | 0.843083 | 0.843083 | 0.843083 | 0.843083 | 0.843083 | 0.843083 | 0.767241 | 0.767241 | 1.580921 | 1.580921 | -2.123650 | -2.123650 | 2.149713 | 2.149713 | 0.609313 | 0.609313 | 0.493468 | 0.493468 | 0.098666 | 0.098666 | -0.506503 | -0.506503 | 7.927146 | 7.927146 | -0.440680 | -0.440680 | -2.655512 | -2.655512 | -4.690484 | -4.690484 | -1.326785 | -1.326785 | -2.058222 | -2.058222 | 1.006946 | 1.006946 | -1.773952 | -1.773952 | -1.773952 | -1.773952 | -1.773952 | -1.773952 | -1.773952 | -1.773952 | -1.773952 | -1.773952 | -1.773952 | -1.773952 | -1.975475 | -1.975475 | 1.797098 | 1.797098 | -1.322095 | -1.322095 |
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| 0.095858 | 0.098153 | 3.248136 | 1.339035 | 0.775668 | 0.775668 | 0.775668 | 0.775668 | 0.775668 | 0.775668 | 0.775668 | 0.775668 | 0.775668 | 1.136079 | 1.136079 | 0.998061 | 0.998061 | 0.195150 | 0.195150 | -0.146914 | -0.146914 | -2.451404 | -2.451404 | 0.494127 | 0.494127 | -0.371066 | -0.371066 | 2.061693 | 2.061693 | -8.671626 | -8.671626 | 1.614623 | 1.614623 | -0.109488 | -0.109488 | -1.261828 | -1.261828 | 1.052267 | 1.052267 | -0.390342 | -0.390342 | -0.220293 | -0.220293 | 0.939004 | 0.939004 | 0.939004 | 0.939004 | 0.939004 | 0.939004 | 0.939004 | 0.939004 | 0.939004 | 0.939004 | 0.939004 | 0.939004 | -0.442326 | -0.442326 | 1.211427 | 1.211427 | 1.100338 | 1.100338 |
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| 0.103563 | 0.092629 | 4.099554 | 11.250030 | 3.871960 | 3.871960 | 3.871960 | 3.871960 | 3.871960 | 3.871960 | 3.871960 | 3.871960 | 3.871960 | 3.632553 | 3.632553 | -1.955481 | -1.955481 | 0.754301 | 0.754301 | -1.801866 | -1.801866 | 0.447749 | 0.447749 | 8.761467 | 8.761467 | -0.371157 | -0.371157 | -2.001757 | -2.001757 | 1.935792 | 1.935792 | -0.898941 | -0.898941 | 1.849517 | 1.849517 | 0.086112 | 0.086112 | 1.588361 | 1.588361 | -3.439923 | -3.439923 | 0.966548 | 0.966548 | 2.893826 | 2.893826 | 2.893826 | 2.893826 | 2.893826 | 2.893826 | 2.893826 | 2.893826 | 2.893826 | 2.893826 | 2.893826 | 2.893826 | -4.019879 | -4.019879 | -0.152941 | -0.152941 | -1.540603 | -1.540603 |
| 0.103561 | 0.090738 | -6.614661 | -5.726808 | -8.897477 | -8.897477 | -8.897477 | -8.897477 | -8.897477 | -8.897477 | -8.897477 | -8.897477 | -8.897477 | 2.446247 | 2.446247 | -0.465894 | -0.465894 | 0.827647 | 0.827647 | -1.059149 | -1.059149 | -3.786660 | -3.786660 | 3.898066 | 3.898066 | 2.772859 | 2.772859 | -3.226285 | -3.226285 | 3.690899 | 3.690899 | 0.789046 | 0.789046 | 1.508071 | 1.508071 | -0.059916 | -0.059916 | 0.099189 | 0.099189 | 3.862911 | 3.862911 | 0.487845 | 0.487845 | 2.552445 | 2.552445 | 2.552445 | 2.552445 | 2.552445 | 2.552445 | 2.552445 | 2.552445 | 2.552445 | 2.552445 | 2.552445 | 2.552445 | -2.582333 | -2.582333 | -5.484576 | -5.484576 | -2.108742 | -2.108742 |
| 0.103558 | 0.088847 | -1.165612 | -10.307265 | 2.120744 | 2.120744 | 2.120744 | 2.120744 | 2.120744 | 2.120744 | 2.120744 | 2.120744 | 2.120744 | 2.681425 | 2.681425 | -0.732782 | -0.732782 | 2.272383 | 2.272383 | 1.467555 | 1.467555 | 1.377667 | 1.377667 | -10.450353 | -10.450353 | 2.004223 | 2.004223 | -12.535498 | -12.535498 | 1.714607 | 1.714607 | 1.407487 | 1.407487 | -0.103637 | -0.103637 | -0.609991 | -0.609991 | 2.457356 | 2.457356 | -0.602451 | -0.602451 | 1.097286 | 1.097286 | -3.157305 | -3.157305 | -3.157305 | -3.157305 | -3.157305 | -3.157305 | -3.157305 | -3.157305 | -3.157305 | -3.157305 | -3.157305 | -3.157305 | 6.571465 | 6.571465 | -1.799811 | -1.799811 | -1.122201 | -1.122201 |
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| 0.10355 | 0.083174 | 0.707954 | -1.521428 | -0.775300 | -0.775300 | -0.775300 | -0.775300 | -0.775300 | -0.775300 | -0.775300 | -0.775300 | -0.775300 | 2.189932 | 2.189932 | -4.951247 | -4.951247 | 6.019882 | 6.019882 | -1.626389 | -1.626389 | -0.148475 | -0.148475 | -14.606958 | -14.606958 | 0.346375 | 0.346375 | 4.989420 | 4.989420 | -2.783794 | -2.783794 | 2.267637 | 2.267637 | -0.504286 | -0.504286 | -1.451425 | -1.451425 | -1.012269 | -1.012269 | 2.996345 | 2.996345 | -0.655953 | -0.655953 | 2.134293 | 2.134293 | 2.134293 | 2.134293 | 2.134293 | 2.134293 | 2.134293 | 2.134293 | 2.134293 | 2.134293 | 2.134293 | 2.134293 | -0.099373 | -0.099373 | 3.410006 | 3.410006 | 1.018380 | 1.018380 |
| 0.103547 | 0.081283 | -0.300652 | -3.022685 | -0.381255 | -0.381255 | -0.381255 | -0.381255 | -0.381255 | -0.381255 | -0.381255 | -0.381255 | -0.381255 | -0.076530 | -0.076530 | -6.662066 | -6.662066 | 2.450928 | 2.450928 | -0.697912 | -0.697912 | -14.176203 | -14.176203 | -5.828920 | -5.828920 | 0.734241 | 0.734241 | -0.604063 | -0.604063 | 3.601919 | 3.601919 | 3.377073 | 3.377073 | 1.644213 | 1.644213 | -0.125924 | -0.125924 | -1.321357 | -1.321357 | -1.066897 | -1.066897 | 0.668283 | 0.668283 | -1.504231 | -1.504231 | -1.504231 | -1.504231 | -1.504231 | -1.504231 | -1.504231 | -1.504231 | -1.504231 | -1.504231 | -1.504231 | -1.504231 | -2.269200 | -2.269200 | 0.523663 | 0.523663 | 1.880525 | 1.880525 |
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| 0.103541 | 0.077501 | 0.951649 | -0.622029 | -1.221179 | -1.221179 | -1.221179 | -1.221179 | -1.221179 | -1.221179 | -1.221179 | -1.221179 | -1.221179 | -1.465681 | -1.465681 | -0.193374 | -0.193374 | -1.594931 | -1.594931 | 5.073408 | 5.073408 | -1.896042 | -1.896042 | 4.404529 | 4.404529 | -0.826141 | -0.826141 | -0.206247 | -0.206247 | -4.633566 | -4.633566 | 0.456786 | 0.456786 | 1.178744 | 1.178744 | 2.569266 | 2.569266 | 4.901428 | 4.901428 | 1.290793 | 1.290793 | -2.943132 | -2.943132 | -1.624846 | -1.624846 | -1.624846 | -1.624846 | -1.624846 | -1.624846 | -1.624846 | -1.624846 | -1.624846 | -1.624846 | -1.624846 | -1.624846 | 1.674015 | 1.674015 | -0.920065 | -0.920065 | -4.303354 | -4.303354 |
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| 0.103512 | 0.056701 | -1.270815 | 0.095269 | 1.400469 | 1.400469 | 1.400469 | 1.400469 | 1.400469 | 1.400469 | 1.400469 | 1.400469 | 1.400469 | 1.828267 | 1.828267 | -0.458219 | -0.458219 | -0.288976 | -0.288976 | -2.058222 | -2.058222 | -2.910327 | -2.910327 | 1.082735 | 1.082735 | -0.389634 | -0.389634 | -0.924726 | -0.924726 | -1.662637 | -1.662637 | -1.371339 | -1.371339 | -0.695026 | -0.695026 | 0.509936 | 0.509936 | 2.471301 | 2.471301 | -0.161502 | -0.161502 | 1.327525 | 1.327525 | 0.343269 | 0.343269 | 0.343269 | 0.343269 | 0.343269 | 0.343269 | 0.343269 | 0.343269 | 0.343269 | 0.343269 | 0.343269 | 0.343269 | 0.712476 | 0.712476 | 0.966153 | 0.966153 | 2.405438 | 2.405438 |
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| 0.103498 | 0.047246 | 0.167086 | 0.372248 | 1.435972 | 1.435972 | 1.435972 | 1.435972 | 1.435972 | 1.435972 | 1.435972 | 1.435972 | 1.435972 | 2.396808 | 2.396808 | 0.915431 | 0.915431 | -1.711821 | -1.711821 | 0.087804 | 0.087804 | -1.153515 | -1.153515 | 0.426744 | 0.426744 | -0.602413 | -0.602413 | -1.344472 | -1.344472 | 1.497203 | 1.497203 | -0.741986 | -0.741986 | -0.736363 | -0.736363 | -0.982642 | -0.982642 | -1.648943 | -1.648943 | -2.081880 | -2.081880 | -2.857140 | -2.857140 | 0.401169 | 0.401169 | 0.401169 | 0.401169 | 0.401169 | 0.401169 | 0.401169 | 0.401169 | 0.401169 | 0.401169 | 0.401169 | 0.401169 | 0.540748 | 0.540748 | -1.238226 | -1.238226 | -1.234693 | -1.234693 |
| 0.103495 | 0.045355 | 0.073730 | -1.486720 | 0.596310 | 0.596310 | 0.596310 | 0.596310 | 0.596310 | 0.596310 | 0.596310 | 0.596310 | 0.596310 | 0.577515 | 0.577515 | 0.819803 | 0.819803 | 0.636983 | 0.636983 | 0.635402 | 0.635402 | -1.257831 | -1.257831 | 1.423415 | 1.423415 | 0.786701 | 0.786701 | -0.574404 | -0.574404 | -0.758883 | -0.758883 | -0.175762 | -0.175762 | 1.715859 | 1.715859 | -0.094924 | -0.094924 | -2.286633 | -2.286633 | -1.584127 | -1.584127 | -1.392355 | -1.392355 | -3.433693 | -3.433693 | -3.433693 | -3.433693 | -3.433693 | -3.433693 | -3.433693 | -3.433693 | -3.433693 | -3.433693 | -3.433693 | -3.433693 | -2.630542 | -2.630542 | -1.748591 | -1.748591 | -2.466409 | -2.466409 |
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| 0.103446 | 0.011317 | 4.937493 | -0.218603 | -0.977934 | -0.977934 | -0.977934 | -0.977934 | -0.977934 | -0.977934 | -0.977934 | -0.977934 | -0.977934 | -0.543581 | -0.543581 | -4.326465 | -4.326465 | -0.549342 | -0.549342 | -0.582312 | -0.582312 | -1.650748 | -1.650748 | -2.843917 | -2.843917 | 2.306539 | 2.306539 | -0.199118 | -0.199118 | 2.243356 | 2.243356 | -4.172965 | -4.172965 | -0.506357 | -0.506357 | -0.757673 | -0.757673 | 1.832858 | 1.832858 | 0.332739 | 0.332739 | -0.454687 | -0.454687 | 1.780501 | 1.780501 | 1.780501 | 1.780501 | 1.780501 | 1.780501 | 1.780501 | 1.780501 | 1.780501 | 1.780501 | 1.780501 | 1.780501 | 2.818947 | 2.818947 | 0.440185 | 0.440185 | 4.060438 | 4.060438 |
| 0.103444 | 0.009426 | 2.904684 | -1.287331 | -3.394604 | -3.394604 | -3.394604 | -3.394604 | -3.394604 | -3.394604 | -3.394604 | -3.394604 | -3.394604 | 0.196826 | 0.196826 | -3.763570 | -3.763570 | -1.524703 | -1.524703 | -2.454277 | -2.454277 | 0.540215 | 0.540215 | 1.447777 | 1.447777 | -2.515505 | -2.515505 | 1.197160 | 1.197160 | -1.926263 | -1.926263 | -2.329328 | -2.329328 | -1.434441 | -1.434441 | -3.419814 | -3.419814 | -0.246315 | -0.246315 | 0.696753 | 0.696753 | -0.940269 | -0.940269 | 0.360768 | 0.360768 | 0.360768 | 0.360768 | 0.360768 | 0.360768 | 0.360768 | 0.360768 | 0.360768 | 0.360768 | 0.360768 | 0.360768 | 0.932698 | 0.932698 | -2.061752 | -2.061752 | 1.699542 | 1.699542 |
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| 0.075304 | 0.009317 | 1.422618 | -2.429151 | 2.265518 | 2.265518 | 2.265518 | 2.265518 | 2.265518 | 2.265518 | 2.265518 | 2.265518 | 2.265518 | -1.848575 | -1.848575 | -0.358503 | -0.358503 | 0.933758 | 0.933758 | 1.623237 | 1.623237 | -3.191873 | -3.191873 | 0.579234 | 0.579234 | -0.944696 | -0.944696 | -0.198047 | -0.198047 | 0.062288 | 0.062288 | -1.105210 | -1.105210 | -1.101680 | -1.101680 | 1.428722 | 1.428722 | -5.741793 | -5.741793 | -3.563201 | -3.563201 | 1.301096 | 1.301096 | -1.163128 | -1.163128 | -1.163128 | -1.163128 | -1.163128 | -1.163128 | -1.163128 | -1.163128 | -1.163128 | -1.163128 | -1.163128 | -1.163128 | -0.439039 | -0.439039 | 0.101697 | 0.101697 | 5.152256 | 5.152256 |
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| 0.072338 | 0.012041 | -2.520474 | 0.566826 | 1.762951 | 1.762951 | 1.762951 | 1.762951 | 1.762951 | 1.762951 | 1.762951 | 1.762951 | 1.762951 | 0.031157 | 0.031157 | 1.396084 | 1.396084 | -0.138663 | -0.138663 | -0.066442 | -0.066442 | -0.033133 | -0.033133 | 1.589811 | 1.589811 | 0.236403 | 0.236403 | -0.098780 | -0.098780 | 1.759991 | 1.759991 | 1.365596 | 1.365596 | 1.547750 | 1.547750 | -2.523739 | -2.523739 | 0.671740 | 0.671740 | -2.360090 | -2.360090 | 0.933079 | 0.933079 | 3.346255 | 3.346255 | 3.346255 | 3.346255 | 3.346255 | 3.346255 | 3.346255 | 3.346255 | 3.346255 | 3.346255 | 3.346255 | 3.346255 | 0.386660 | 0.386660 | 3.126859 | 3.126859 | -3.581482 | -3.581482 |
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| 0.072329 | 0.017714 | -0.540327 | -0.963171 | 3.952336 | 3.952336 | 3.952336 | 3.952336 | 3.952336 | 3.952336 | 3.952336 | 3.952336 | 3.952336 | 2.088384 | 2.088384 | 2.564233 | 2.564233 | 0.041202 | 0.041202 | 2.488537 | 2.488537 | -0.708437 | -0.708437 | -0.485243 | -0.485243 | 1.456239 | 1.456239 | 0.407347 | 0.407347 | -2.083066 | -2.083066 | 1.536234 | 1.536234 | -1.990311 | -1.990311 | -0.613836 | -0.613836 | -0.010992 | -0.010992 | -0.733927 | -0.733927 | 0.247886 | 0.247886 | -2.552436 | -2.552436 | -2.552436 | -2.552436 | -2.552436 | -2.552436 | -2.552436 | -2.552436 | -2.552436 | -2.552436 | -2.552436 | -2.552436 | -0.032620 | -0.032620 | -0.617154 | -0.617154 | 2.882707 | 2.882707 |
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| 0.072323 | 0.021496 | 1.170864 | 1.370839 | 0.730333 | 0.730333 | 0.730333 | 0.730333 | 0.730333 | 0.730333 | 0.730333 | 0.730333 | 0.730333 | 2.256532 | 2.256532 | 1.647919 | 1.647919 | 2.522117 | 2.522117 | -0.213719 | -0.213719 | -0.208465 | -0.208465 | -0.829210 | -0.829210 | -1.130351 | -1.130351 | -3.091639 | -3.091639 | -0.041515 | -0.041515 | 0.754909 | 0.754909 | 1.409812 | 1.409812 | -0.277520 | -0.277520 | 0.471141 | 0.471141 | 1.219579 | 1.219579 | 1.166159 | 1.166159 | 0.995460 | 0.995460 | 0.995460 | 0.995460 | 0.995460 | 0.995460 | 0.995460 | 0.995460 | 0.995460 | 0.995460 | 0.995460 | 0.995460 | -0.076972 | -0.076972 | 1.271621 | 1.271621 | 2.339061 | 2.339061 |
| 0.07232 | 0.023387 | 1.376684 | -0.330772 | -0.500811 | -0.500811 | -0.500811 | -0.500811 | -0.500811 | -0.500811 | -0.500811 | -0.500811 | -0.500811 | 1.964264 | 1.964264 | -0.712430 | -0.712430 | 1.235476 | 1.235476 | 0.136760 | 0.136760 | -0.762748 | -0.762748 | -1.750165 | -1.750165 | -0.253925 | -0.253925 | -0.343582 | -0.343582 | 0.488287 | 0.488287 | -0.366031 | -0.366031 | 0.949910 | 0.949910 | 0.181886 | 0.181886 | 1.312084 | 1.312084 | 0.651745 | 0.651745 | -1.922562 | -1.922562 | 2.252696 | 2.252696 | 2.252696 | 2.252696 | 2.252696 | 2.252696 | 2.252696 | 2.252696 | 2.252696 | 2.252696 | 2.252696 | 2.252696 | -0.105203 | -0.105203 | 1.025670 | 1.025670 | 2.284217 | 2.284217 |
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| 0.072297 | 0.038515 | -0.608490 | -1.629569 | 0.658378 | 0.658378 | 0.658378 | 0.658378 | 0.658378 | 0.658378 | 0.658378 | 0.658378 | 0.658378 | -0.161536 | -0.161536 | 0.516193 | 0.516193 | 2.533842 | 2.533842 | 0.263380 | 0.263380 | 0.835777 | 0.835777 | 1.064949 | 1.064949 | 0.873751 | 0.873751 | 2.058104 | 2.058104 | -0.304431 | -0.304431 | -0.165134 | -0.165134 | 1.093898 | 1.093898 | -1.522039 | -1.522039 | 1.243625 | 1.243625 | 0.877191 | 0.877191 | -0.188330 | -0.188330 | -1.177631 | -1.177631 | -1.177631 | -1.177631 | -1.177631 | -1.177631 | -1.177631 | -1.177631 | -1.177631 | -1.177631 | -1.177631 | -1.177631 | -1.006327 | -1.006327 | 1.102712 | 1.102712 | 1.297725 | 1.297725 |
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| 0.072282 | 0.04797 | 0.724720 | 0.176453 | -0.794275 | -0.794275 | -0.794275 | -0.794275 | -0.794275 | -0.794275 | -0.794275 | -0.794275 | -0.794275 | 1.790141 | 1.790141 | -0.349404 | -0.349404 | -0.648744 | -0.648744 | -1.126657 | -1.126657 | -0.741138 | -0.741138 | 1.781787 | 1.781787 | -1.265182 | -1.265182 | 0.012847 | 0.012847 | -0.100450 | -0.100450 | 1.167196 | 1.167196 | -0.432663 | -0.432663 | 0.039572 | 0.039572 | -0.093194 | -0.093194 | 1.152690 | 1.152690 | 0.305986 | 0.305986 | -0.747367 | -0.747367 | -0.747367 | -0.747367 | -0.747367 | -0.747367 | -0.747367 | -0.747367 | -0.747367 | -0.747367 | -0.747367 | -0.747367 | -1.504120 | -1.504120 | 0.125686 | 0.125686 | -0.383000 | -0.383000 |
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| 0.072262 | 0.061206 | 0.511199 | -1.283394 | 0.093768 | 0.093768 | 0.093768 | 0.093768 | 0.093768 | 0.093768 | 0.093768 | 0.093768 | 0.093768 | -0.967511 | -0.967511 | -1.967939 | -1.967939 | 0.721137 | 0.721137 | 1.121047 | 1.121047 | 0.558480 | 0.558480 | -0.603310 | -0.603310 | 0.004710 | 0.004710 | 0.191597 | 0.191597 | 0.267847 | 0.267847 | 0.055440 | 0.055440 | 0.466872 | 0.466872 | 0.662472 | 0.662472 | -0.707643 | -0.707643 | -0.161908 | -0.161908 | -1.865513 | -1.865513 | -0.418997 | -0.418997 | -0.418997 | -0.418997 | -0.418997 | -0.418997 | -0.418997 | -0.418997 | -0.418997 | -0.418997 | -0.418997 | -0.418997 | 0.201238 | 0.201238 | 0.067244 | 0.067244 | -1.133073 | -1.133073 |
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| 0.072241 | 0.074443 | 1.825195 | 2.624154 | 1.005459 | 1.005459 | 1.005459 | 1.005459 | 1.005459 | 1.005459 | 1.005459 | 1.005459 | 1.005459 | 1.425560 | 1.425560 | -0.749191 | -0.749191 | -1.155866 | -1.155866 | 2.346072 | 2.346072 | -1.543813 | -1.543813 | -1.662086 | -1.662086 | -2.814429 | -2.814429 | 0.715488 | 0.715488 | -0.519430 | -0.519430 | -0.226655 | -0.226655 | -0.321528 | -0.321528 | -2.579740 | -2.579740 | 1.790538 | 1.790538 | 1.158476 | 1.158476 | -0.436608 | -0.436608 | -3.147296 | -3.147296 | -3.147296 | -3.147296 | -3.147296 | -3.147296 | -3.147296 | -3.147296 | -3.147296 | -3.147296 | -3.147296 | -3.147296 | 0.629912 | 0.629912 | 1.907630 | 1.907630 | 0.188658 | 0.188658 |
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| 0.072232 | 0.080116 | 0.438500 | -1.241609 | -0.865171 | -0.865171 | -0.865171 | -0.865171 | -0.865171 | -0.865171 | -0.865171 | -0.865171 | -0.865171 | -1.309659 | -1.309659 | 0.346437 | 0.346437 | 1.571596 | 1.571596 | -2.295787 | -2.295787 | -1.831079 | -1.831079 | -1.001107 | -1.001107 | 0.601514 | 0.601514 | 0.042772 | 0.042772 | 0.033788 | 0.033788 | 0.902864 | 0.902864 | -1.099303 | -1.099303 | -0.816950 | -0.816950 | -0.319441 | -0.319441 | -0.541182 | -0.541182 | 2.705700 | 2.705700 | -0.032136 | -0.032136 | -0.032136 | -0.032136 | -0.032136 | -0.032136 | -0.032136 | -0.032136 | -0.032136 | -0.032136 | -0.032136 | -0.032136 | 0.275204 | 0.275204 | -1.475538 | -1.475538 | -1.417410 | -1.417410 |
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| 0.072226 | 0.083898 | -0.498160 | 0.331114 | -0.171314 | -0.171314 | -0.171314 | -0.171314 | -0.171314 | -0.171314 | -0.171314 | -0.171314 | -0.171314 | 0.591472 | 0.591472 | -2.022180 | -2.022180 | -2.632187 | -2.632187 | -0.679136 | -0.679136 | -0.426580 | -0.426580 | 0.181812 | 0.181812 | -0.061965 | -0.061965 | -1.152533 | -1.152533 | 3.784979 | 3.784979 | -3.406953 | -3.406953 | 0.278580 | 0.278580 | 0.237544 | 0.237544 | 2.755699 | 2.755699 | -1.066816 | -1.066816 | 0.773151 | 0.773151 | -0.069719 | -0.069719 | -0.069719 | -0.069719 | -0.069719 | -0.069719 | -0.069719 | -0.069719 | -0.069719 | -0.069719 | -0.069719 | -0.069719 | -1.169841 | -1.169841 | -0.268172 | -0.268172 | 0.343046 | 0.343046 |
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| 0.097283 | 0.087133 | -0.660076 | -2.213571 | -1.198125 | -1.198125 | -1.198125 | -1.198125 | -1.198125 | -1.198125 | -1.198125 | -1.198125 | -1.198125 | -0.541273 | -0.541273 | 2.349113 | 2.349113 | 0.236919 | 0.236919 | -0.033442 | -0.033442 | -0.808224 | -0.808224 | 0.450058 | 0.450058 | 1.395794 | 1.395794 | 1.329181 | 1.329181 | 1.987303 | 1.987303 | -0.135836 | -0.135836 | 0.283722 | 0.283722 | 0.215964 | 0.215964 | 1.130733 | 1.130733 | -2.074837 | -2.074837 | -0.508982 | -0.508982 | 0.924193 | 0.924193 | 0.924193 | 0.924193 | 0.924193 | 0.924193 | 0.924193 | 0.924193 | 0.924193 | 0.924193 | 0.924193 | 0.924193 | -0.059934 | -0.059934 | -0.907129 | -0.907129 | 0.654577 | 0.654577 |
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| 0.097199 | 0.06255 | 0.068227 | -0.882817 | -2.120418 | -2.120418 | -2.120418 | -2.120418 | -2.120418 | -2.120418 | -2.120418 | -2.120418 | -2.120418 | -1.129978 | -1.129978 | -2.915425 | -2.915425 | 0.508696 | 0.508696 | -1.475965 | -1.475965 | 0.307155 | 0.307155 | -1.278744 | -1.278744 | -1.006874 | -1.006874 | 0.997097 | 0.997097 | 0.445711 | 0.445711 | -0.995382 | -0.995382 | -0.409564 | -0.409564 | -1.569553 | -1.569553 | -2.539837 | -2.539837 | 1.016591 | 1.016591 | 1.182001 | 1.182001 | -1.077523 | -1.077523 | -1.077523 | -1.077523 | -1.077523 | -1.077523 | -1.077523 | -1.077523 | -1.077523 | -1.077523 | -1.077523 | -1.077523 | 0.725078 | 0.725078 | -0.728205 | -0.728205 | 0.237753 | 0.237753 |
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| 0.097186 | 0.058768 | -0.874665 | -0.973730 | 0.154519 | 0.154519 | 0.154519 | 0.154519 | 0.154519 | 0.154519 | 0.154519 | 0.154519 | 0.154519 | -1.293046 | -1.293046 | -1.146198 | -1.146198 | 0.003286 | 0.003286 | -1.181025 | -1.181025 | 0.587175 | 0.587175 | -0.111050 | -0.111050 | -0.657753 | -0.657753 | -1.189419 | -1.189419 | 1.243947 | 1.243947 | -1.191712 | -1.191712 | 0.048684 | 0.048684 | -0.174927 | -0.174927 | -2.020614 | -2.020614 | -1.218399 | -1.218399 | -2.438008 | -2.438008 | -1.381339 | -1.381339 | -1.381339 | -1.381339 | -1.381339 | -1.381339 | -1.381339 | -1.381339 | -1.381339 | -1.381339 | -1.381339 | -1.381339 | 1.303867 | 1.303867 | -0.370606 | -0.370606 | 0.344188 | 0.344188 |
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| 0.097121 | 0.039859 | 0.215608 | 2.168534 | 2.278915 | 2.278915 | 2.278915 | 2.278915 | 2.278915 | 2.278915 | 2.278915 | 2.278915 | 2.278915 | 1.106388 | 1.106388 | 0.885735 | 0.885735 | 2.456038 | 2.456038 | -2.638729 | -2.638729 | -0.662932 | -0.662932 | 0.302544 | 0.302544 | -0.964705 | -0.964705 | -0.377785 | -0.377785 | -1.035936 | -1.035936 | 0.251674 | 0.251674 | 1.760202 | 1.760202 | -0.109284 | -0.109284 | -0.942124 | -0.942124 | 0.335862 | 0.335862 | -0.723179 | -0.723179 | 1.503099 | 1.503099 | 1.503099 | 1.503099 | 1.503099 | 1.503099 | 1.503099 | 1.503099 | 1.503099 | 1.503099 | 1.503099 | 1.503099 | -0.627368 | -0.627368 | 1.476606 | 1.476606 | 0.264803 | 0.264803 |
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| 0.097076 | 0.026622 | 0.220172 | -0.343917 | -0.169630 | -0.169630 | -0.169630 | -0.169630 | -0.169630 | -0.169630 | -0.169630 | -0.169630 | -0.169630 | -0.433034 | -0.433034 | 2.895227 | 2.895227 | -1.610166 | -1.610166 | 1.401173 | 1.401173 | -0.067467 | -0.067467 | -0.865665 | -0.865665 | 0.270567 | 0.270567 | -0.331318 | -0.331318 | -3.538229 | -3.538229 | -0.011699 | -0.011699 | 1.639654 | 1.639654 | 0.402456 | 0.402456 | -1.013293 | -1.013293 | -2.872870 | -2.872870 | 0.613122 | 0.613122 | 0.462759 | 0.462759 | 0.462759 | 0.462759 | 0.462759 | 0.462759 | 0.462759 | 0.462759 | 0.462759 | 0.462759 | 0.462759 | 0.462759 | 0.806730 | 0.806730 | 1.195426 | 1.195426 | -0.800060 | -0.800060 |
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| 0.097057 | 0.020949 | 1.199863 | 0.344626 | 1.426573 | 1.426573 | 1.426573 | 1.426573 | 1.426573 | 1.426573 | 1.426573 | 1.426573 | 1.426573 | -0.506619 | -0.506619 | 1.785645 | 1.785645 | 1.438298 | 1.438298 | -0.669749 | -0.669749 | -0.811907 | -0.811907 | 1.796160 | 1.796160 | -0.891292 | -0.891292 | -1.365355 | -1.365355 | 0.154575 | 0.154575 | -0.525762 | -0.525762 | 1.542679 | 1.542679 | -1.182273 | -1.182273 | 2.397883 | 2.397883 | -0.803434 | -0.803434 | -3.215791 | -3.215791 | -1.830969 | -1.830969 | -1.830969 | -1.830969 | -1.830969 | -1.830969 | -1.830969 | -1.830969 | -1.830969 | -1.830969 | -1.830969 | -1.830969 | -0.352508 | -0.352508 | 1.560427 | 1.560427 | 0.472124 | 0.472124 |
| 0.09705 | 0.019058 | 2.550809 | 0.722391 | 2.651275 | 2.651275 | 2.651275 | 2.651275 | 2.651275 | 2.651275 | 2.651275 | 2.651275 | 2.651275 | -0.387005 | -0.387005 | 1.511750 | 1.511750 | 4.035383 | 4.035383 | 3.705523 | 3.705523 | -0.634367 | -0.634367 | 1.721530 | 1.721530 | -1.067854 | -1.067854 | -0.710484 | -0.710484 | 2.490000 | 2.490000 | -0.461460 | -0.461460 | 2.951367 | 2.951367 | -0.452230 | -0.452230 | 2.552575 | 2.552575 | 0.239294 | 0.239294 | 0.368427 | 0.368427 | -3.067927 | -3.067927 | -3.067927 | -3.067927 | -3.067927 | -3.067927 | -3.067927 | -3.067927 | -3.067927 | -3.067927 | -3.067927 | -3.067927 | -1.303124 | -1.303124 | 2.876125 | 2.876125 | 0.476942 | 0.476942 |
| 0.097044 | 0.017167 | 4.438047 | 2.052856 | 3.567975 | 3.567975 | 3.567975 | 3.567975 | 3.567975 | 3.567975 | 3.567975 | 3.567975 | 3.567975 | -0.934471 | -0.934471 | 0.113203 | 0.113203 | 3.538652 | 3.538652 | -0.378933 | -0.378933 | 0.977226 | 0.977226 | -0.102856 | -0.102856 | 0.845739 | 0.845739 | -0.871344 | -0.871344 | 2.625629 | 2.625629 | 0.728882 | 0.728882 | 0.560851 | 0.560851 | 2.408284 | 2.408284 | -1.226654 | -1.226654 | -0.683632 | -0.683632 | 0.278975 | 0.278975 | -0.629284 | -0.629284 | -0.629284 | -0.629284 | -0.629284 | -0.629284 | -0.629284 | -0.629284 | -0.629284 | -0.629284 | -0.629284 | -0.629284 | -1.213833 | -1.213833 | 0.408379 | 0.408379 | -1.145828 | -1.145828 |
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| 0.08951 | 0.017193 | 1.020722 | 0.683848 | -2.142673 | -2.142673 | -2.142673 | -2.142673 | -2.142673 | -2.142673 | -2.142673 | -2.142673 | -2.142673 | 1.823581 | 1.823581 | -1.011155 | -1.011155 | -1.451059 | -1.451059 | -0.104661 | -0.104661 | 1.216132 | 1.216132 | 2.340900 | 2.340900 | 0.641187 | 0.641187 | 0.135573 | 0.135573 | 1.898720 | 1.898720 | 1.706015 | 1.706015 | -0.349388 | -0.349388 | 2.361615 | 2.361615 | -0.501168 | -0.501168 | 0.800916 | 0.800916 | -0.500383 | -0.500383 | 0.208276 | 0.208276 | 0.208276 | 0.208276 | 0.208276 | 0.208276 | 0.208276 | 0.208276 | 0.208276 | 0.208276 | 0.208276 | 0.208276 | 1.790534 | 1.790534 | 1.574471 | 1.574471 | -1.068053 | -1.068053 |
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| 0.081947 | 0.01725 | 0.891060 | 1.792258 | 0.690409 | 0.690409 | 0.690409 | 0.690409 | 0.690409 | 0.690409 | 0.690409 | 0.690409 | 0.690409 | 1.348421 | 1.348421 | 0.710359 | 0.710359 | -2.593276 | -2.593276 | -0.675340 | -0.675340 | -1.406244 | -1.406244 | -0.800074 | -0.800074 | -1.262195 | -1.262195 | 0.365591 | 0.365591 | -1.104382 | -1.104382 | 1.071559 | 1.071559 | 0.903640 | 0.903640 | 1.213966 | 1.213966 | -1.381402 | -1.381402 | 0.102407 | 0.102407 | 0.041244 | 0.041244 | 0.226595 | 0.226595 | 0.226595 | 0.226595 | 0.226595 | 0.226595 | 0.226595 | 0.226595 | 0.226595 | 0.226595 | 0.226595 | 0.226595 | -1.343014 | -1.343014 | 2.011657 | 2.011657 | 0.551429 | 0.551429 |
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| 0.080057 | 0.026685 | -0.576359 | -0.171517 | -0.529678 | -0.529678 | -0.529678 | -0.529678 | -0.529678 | -0.529678 | -0.529678 | -0.529678 | -0.529678 | 0.373859 | 0.373859 | 0.946462 | 0.946462 | 0.048913 | 0.048913 | -0.827858 | -0.827858 | -3.482834 | -3.482834 | -0.845676 | -0.845676 | -0.969943 | -0.969943 | -0.643287 | -0.643287 | 2.335896 | 2.335896 | -0.111890 | -0.111890 | -0.679296 | -0.679296 | -1.180380 | -1.180380 | -2.093443 | -2.093443 | -0.496283 | -0.496283 | -0.855175 | -0.855175 | -0.016738 | -0.016738 | -0.016738 | -0.016738 | -0.016738 | -0.016738 | -0.016738 | -0.016738 | -0.016738 | -0.016738 | -0.016738 | -0.016738 | -0.816822 | -0.816822 | -1.643133 | -1.643133 | -0.507575 | -0.507575 |
| 0.080065 | 0.028576 | -1.141554 | -0.938838 | -1.396782 | -1.396782 | -1.396782 | -1.396782 | -1.396782 | -1.396782 | -1.396782 | -1.396782 | -1.396782 | 0.120923 | 0.120923 | -0.049244 | -0.049244 | -1.602716 | -1.602716 | -0.548670 | -0.548670 | -1.014196 | -1.014196 | 1.180209 | 1.180209 | -1.109047 | -1.109047 | -0.625647 | -0.625647 | 1.406982 | 1.406982 | -0.197960 | -0.197960 | -1.566350 | -1.566350 | 0.040149 | 0.040149 | -0.701016 | -0.701016 | 0.015818 | 0.015818 | 0.152699 | 0.152699 | -0.669974 | -0.669974 | -0.669974 | -0.669974 | -0.669974 | -0.669974 | -0.669974 | -0.669974 | -0.669974 | -0.669974 | -0.669974 | -0.669974 | -2.350215 | -2.350215 | -1.764885 | -1.764885 | -0.352111 | -0.352111 |
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| 0.080195 | 0.062614 | -0.029720 | 0.247867 | 1.832921 | 1.832921 | 1.832921 | 1.832921 | 1.832921 | 1.832921 | 1.832921 | 1.832921 | 1.832921 | 0.980619 | 0.980619 | -0.154026 | -0.154026 | -1.449002 | -1.449002 | 0.730805 | 0.730805 | -0.407159 | -0.407159 | 0.928990 | 0.928990 | 0.305311 | 0.305311 | 0.937264 | 0.937264 | -0.618319 | -0.618319 | -1.080011 | -1.080011 | -0.883613 | -0.883613 | 0.476653 | 0.476653 | 0.597900 | 0.597900 | -0.254634 | -0.254634 | -1.317516 | -1.317516 | -0.721067 | -0.721067 | -0.721067 | -0.721067 | -0.721067 | -0.721067 | -0.721067 | -0.721067 | -0.721067 | -0.721067 | -0.721067 | -0.721067 | -0.551612 | -0.551612 | -0.025229 | -0.025229 | -0.066646 | -0.066646 |
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| 0.089887 | 0.079591 | -0.988591 | 1.134099 | 2.443670 | 2.443670 | 2.443670 | 2.443670 | 2.443670 | 2.443670 | 2.443670 | 2.443670 | 2.443670 | 1.370494 | 1.370494 | -0.119560 | -0.119560 | 0.661612 | 0.661612 | -0.838781 | -0.838781 | -0.415907 | -0.415907 | -0.439593 | -0.439593 | 2.017250 | 2.017250 | -0.746705 | -0.746705 | -0.142854 | -0.142854 | -0.005932 | -0.005932 | -0.925422 | -0.925422 | 0.563430 | 0.563430 | 0.708253 | 0.708253 | -0.371813 | -0.371813 | 0.580097 | 0.580097 | 2.399505 | 2.399505 | 2.399505 | 2.399505 | 2.399505 | 2.399505 | 2.399505 | 2.399505 | 2.399505 | 2.399505 | 2.399505 | 2.399505 | -0.113487 | -0.113487 | -0.800179 | -0.800179 | 0.275044 | 0.275044 |
| 0.089891 | 0.0777 | 0.285492 | -0.311454 | 0.542041 | 0.542041 | 0.542041 | 0.542041 | 0.542041 | 0.542041 | 0.542041 | 0.542041 | 0.542041 | 2.106078 | 2.106078 | -0.143565 | -0.143565 | -1.757261 | -1.757261 | -0.396767 | -0.396767 | -1.053587 | -1.053587 | -0.742565 | -0.742565 | -0.602912 | -0.602912 | -0.017176 | -0.017176 | -0.312060 | -0.312060 | 0.744248 | 0.744248 | -1.096068 | -1.096068 | 0.187992 | 0.187992 | 0.079712 | 0.079712 | 0.277945 | 0.277945 | -0.434977 | -0.434977 | -0.034607 | -0.034607 | -0.034607 | -0.034607 | -0.034607 | -0.034607 | -0.034607 | -0.034607 | -0.034607 | -0.034607 | -0.034607 | -0.034607 | 1.544274 | 1.544274 | 0.723898 | 0.723898 | 0.226075 | 0.226075 |
| 0.089895 | 0.075809 | -0.644867 | 0.786203 | -0.059716 | -0.059716 | -0.059716 | -0.059716 | -0.059716 | -0.059716 | -0.059716 | -0.059716 | -0.059716 | 0.552308 | 0.552308 | -0.347287 | -0.347287 | 1.105196 | 1.105196 | -0.620665 | -0.620665 | -0.669107 | -0.669107 | -1.000720 | -1.000720 | -0.520878 | -0.520878 | -0.716124 | -0.716124 | -1.360903 | -1.360903 | -1.085957 | -1.085957 | -0.477996 | -0.477996 | -1.430035 | -1.430035 | -1.167253 | -1.167253 | 0.842524 | 0.842524 | -0.605272 | -0.605272 | 1.456005 | 1.456005 | 1.456005 | 1.456005 | 1.456005 | 1.456005 | 1.456005 | 1.456005 | 1.456005 | 1.456005 | 1.456005 | 1.456005 | 1.041102 | 1.041102 | 2.227535 | 2.227535 | 0.980950 | 0.980950 |
| 0.089899 | 0.073918 | 0.408492 | -0.638573 | 0.106350 | 0.106350 | 0.106350 | 0.106350 | 0.106350 | 0.106350 | 0.106350 | 0.106350 | 0.106350 | 0.504950 | 0.504950 | -0.465789 | -0.465789 | 1.769620 | 1.769620 | 0.060895 | 0.060895 | 0.233533 | 0.233533 | 0.386178 | 0.386178 | -0.012563 | -0.012563 | -0.849933 | -0.849933 | -0.844123 | -0.844123 | -0.616786 | -0.616786 | -0.313473 | -0.313473 | 1.265701 | 1.265701 | -0.421296 | -0.421296 | -0.015011 | -0.015011 | -1.132210 | -1.132210 | 2.975342 | 2.975342 | 2.975342 | 2.975342 | 2.975342 | 2.975342 | 2.975342 | 2.975342 | 2.975342 | 2.975342 | 2.975342 | 2.975342 | 1.014974 | 1.014974 | 2.178459 | 2.178459 | 2.811821 | 2.811821 |
| 0.089903 | 0.072027 | 0.626878 | -1.709124 | 1.077079 | 1.077079 | 1.077079 | 1.077079 | 1.077079 | 1.077079 | 1.077079 | 1.077079 | 1.077079 | -0.257102 | -0.257102 | -1.187816 | -1.187816 | 1.981758 | 1.981758 | 1.387668 | 1.387668 | 1.358723 | 1.358723 | 0.966050 | 0.966050 | 0.854451 | 0.854451 | -2.139270 | -2.139270 | -0.675348 | -0.675348 | 0.073377 | 0.073377 | -0.105927 | -0.105927 | 2.921450 | 2.921450 | -0.128520 | -0.128520 | -0.847829 | -0.847829 | -0.771587 | -0.771587 | 0.012826 | 0.012826 | 0.012826 | 0.012826 | 0.012826 | 0.012826 | 0.012826 | 0.012826 | 0.012826 | 0.012826 | 0.012826 | 0.012826 | 0.509796 | 0.509796 | 0.888656 | 0.888656 | 2.471994 | 2.471994 |
| 0.089907 | 0.070136 | -0.575904 | -1.432527 | 1.407838 | 1.407838 | 1.407838 | 1.407838 | 1.407838 | 1.407838 | 1.407838 | 1.407838 | 1.407838 | -0.655808 | -0.655808 | -1.585964 | -1.585964 | 0.538695 | 0.538695 | 1.468222 | 1.468222 | 1.117591 | 1.117591 | 0.722439 | 0.722439 | 1.005889 | 1.005889 | -1.813378 | -1.813378 | -0.901691 | -0.901691 | 0.117394 | 0.117394 | 0.054650 | 0.054650 | 0.929090 | 0.929090 | 0.456717 | 0.456717 | -0.758660 | -0.758660 | -1.385052 | -1.385052 | 0.649420 | 0.649420 | 0.649420 | 0.649420 | 0.649420 | 0.649420 | 0.649420 | 0.649420 | 0.649420 | 0.649420 | 0.649420 | 0.649420 | -1.186698 | -1.186698 | 0.513455 | 0.513455 | -0.951697 | -0.951697 |
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| 0.089915 | 0.066354 | -2.338885 | -0.793753 | 0.172094 | 0.172094 | 0.172094 | 0.172094 | 0.172094 | 0.172094 | 0.172094 | 0.172094 | 0.172094 | -0.189951 | -0.189951 | -0.174494 | -0.174494 | -0.675861 | -0.675861 | -1.289972 | -1.289972 | 1.735549 | 1.735549 | -0.270033 | -0.270033 | 1.049697 | 1.049697 | -1.238045 | -1.238045 | 0.353858 | 0.353858 | 1.172905 | 1.172905 | 0.677659 | 0.677659 | 0.081116 | 0.081116 | -0.949609 | -0.949609 | -0.679123 | -0.679123 | -0.734439 | -0.734439 | 2.325489 | 2.325489 | 2.325489 | 2.325489 | 2.325489 | 2.325489 | 2.325489 | 2.325489 | 2.325489 | 2.325489 | 2.325489 | 2.325489 | -0.742802 | -0.742802 | 1.376426 | 1.376426 | -1.975345 | -1.975345 |
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| 0.089923 | 0.062572 | -0.710858 | -0.333318 | 0.977998 | 0.977998 | 0.977998 | 0.977998 | 0.977998 | 0.977998 | 0.977998 | 0.977998 | 0.977998 | -0.241617 | -0.241617 | -0.250127 | -0.250127 | -0.184573 | -0.184573 | 1.524928 | 1.524928 | 0.856226 | 0.856226 | -0.171141 | -0.171141 | 2.460017 | 2.460017 | -1.324231 | -1.324231 | -0.242064 | -0.242064 | 1.467219 | 1.467219 | -2.916692 | -2.916692 | -0.981002 | -0.981002 | 0.835600 | 0.835600 | -0.045024 | -0.045024 | -0.067992 | -0.067992 | 0.416804 | 0.416804 | 0.416804 | 0.416804 | 0.416804 | 0.416804 | 0.416804 | 0.416804 | 0.416804 | 0.416804 | 0.416804 | 0.416804 | -0.487266 | -0.487266 | 0.128069 | 0.128069 | 0.626121 | 0.626121 |
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| 0.089934 | 0.056899 | -1.854652 | 0.598134 | 0.047667 | 0.047667 | 0.047667 | 0.047667 | 0.047667 | 0.047667 | 0.047667 | 0.047667 | 0.047667 | 0.118336 | 0.118336 | -0.542541 | -0.542541 | -1.572480 | -1.572480 | 0.159629 | 0.159629 | -0.295180 | -0.295180 | 0.945799 | 0.945799 | -0.802142 | -0.802142 | 1.943033 | 1.943033 | 1.504996 | 1.504996 | 0.481613 | 0.481613 | 0.900227 | 0.900227 | 1.528292 | 1.528292 | 0.014273 | 0.014273 | -1.680532 | -1.680532 | -1.035260 | -1.035260 | 0.501594 | 0.501594 | 0.501594 | 0.501594 | 0.501594 | 0.501594 | 0.501594 | 0.501594 | 0.501594 | 0.501594 | 0.501594 | 0.501594 | 0.218527 | 0.218527 | 0.834679 | 0.834679 | 0.662145 | 0.662145 |
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| 0.090002 | 0.024752 | 1.750025 | 0.732585 | 5.046586 | 5.046586 | 5.046586 | 5.046586 | 5.046586 | 5.046586 | 5.046586 | 5.046586 | 5.046586 | 0.898134 | 0.898134 | 0.440675 | 0.440675 | -0.475692 | -0.475692 | -0.921274 | -0.921274 | 1.695092 | 1.695092 | 1.973408 | 1.973408 | -1.415724 | -1.415724 | 1.005189 | 1.005189 | -1.549639 | -1.549639 | -0.290299 | -0.290299 | -0.077099 | -0.077099 | -3.222918 | -3.222918 | -0.785400 | -0.785400 | 0.880926 | 0.880926 | 1.549965 | 1.549965 | -0.015629 | -0.015629 | -0.015629 | -0.015629 | -0.015629 | -0.015629 | -0.015629 | -0.015629 | -0.015629 | -0.015629 | -0.015629 | -0.015629 | -0.597829 | -0.597829 | 1.668360 | 1.668360 | -0.962535 | -0.962535 |
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| 0.085493 | 0.037965 | -0.722523 | -0.780114 | -0.741749 | -0.741749 | -0.741749 | -0.741749 | -0.741749 | -0.741749 | -0.741749 | -0.741749 | -0.741749 | -0.690743 | -0.690743 | -1.251316 | -1.251316 | 3.482941 | 3.482941 | 1.053230 | 1.053230 | 0.662585 | 0.662585 | 1.154827 | 1.154827 | 3.444966 | 3.444966 | -1.092012 | -1.092012 | 2.988607 | 2.988607 | 0.545303 | 0.545303 | 1.394726 | 1.394726 | -1.062693 | -1.062693 | 0.390961 | 0.390961 | 0.040147 | 0.040147 | 0.954213 | 0.954213 | 1.392744 | 1.392744 | 1.392744 | 1.392744 | 1.392744 | 1.392744 | 1.392744 | 1.392744 | 1.392744 | 1.392744 | 1.392744 | 1.392744 | -0.972074 | -0.972074 | -0.822298 | -0.822298 | -0.960466 | -0.960466 |
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| 0.08547 | 0.047419 | 0.740362 | -1.866258 | 3.711789 | 3.711789 | 3.711789 | 3.711789 | 3.711789 | 3.711789 | 3.711789 | 3.711789 | 3.711789 | 2.169223 | 2.169223 | 0.721104 | 0.721104 | -0.666301 | -0.666301 | 0.418461 | 0.418461 | 3.409928 | 3.409928 | -2.754034 | -2.754034 | 1.402235 | 1.402235 | -0.039273 | -0.039273 | 2.170083 | 2.170083 | 0.834346 | 0.834346 | 1.714835 | 1.714835 | 0.993294 | 0.993294 | -0.305219 | -0.305219 | -0.075205 | -0.075205 | -2.401652 | -2.401652 | -0.703811 | -0.703811 | -0.703811 | -0.703811 | -0.703811 | -0.703811 | -0.703811 | -0.703811 | -0.703811 | -0.703811 | -0.703811 | -0.703811 | -0.785028 | -0.785028 | -0.546377 | -0.546377 | 2.323899 | 2.323899 |
| 0.085465 | 0.04931 | 1.854989 | -1.227577 | 0.135094 | 0.135094 | 0.135094 | 0.135094 | 0.135094 | 0.135094 | 0.135094 | 0.135094 | 0.135094 | -1.430063 | -1.430063 | 0.763009 | 0.763009 | 0.690410 | 0.690410 | 3.070345 | 3.070345 | 2.659624 | 2.659624 | 0.843046 | 0.843046 | 0.043073 | 0.043073 | -0.483461 | -0.483461 | 0.203865 | 0.203865 | 0.114056 | 0.114056 | -1.098008 | -1.098008 | 0.568007 | 0.568007 | 1.962593 | 1.962593 | -0.979457 | -0.979457 | -1.272127 | -1.272127 | -2.150785 | -2.150785 | -2.150785 | -2.150785 | -2.150785 | -2.150785 | -2.150785 | -2.150785 | -2.150785 | -2.150785 | -2.150785 | -2.150785 | 0.038489 | 0.038489 | -0.168948 | -0.168948 | -0.596416 | -0.596416 |
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| 0.085415 | 0.070111 | -0.900227 | 0.159396 | -1.191038 | -1.191038 | -1.191038 | -1.191038 | -1.191038 | -1.191038 | -1.191038 | -1.191038 | -1.191038 | -0.480446 | -0.480446 | 0.043608 | 0.043608 | 0.214308 | 0.214308 | -5.534214 | -5.534214 | 0.928378 | 0.928378 | -1.645365 | -1.645365 | 0.148807 | 0.148807 | 0.964327 | 0.964327 | -1.730641 | -1.730641 | -0.038182 | -0.038182 | -1.107811 | -1.107811 | -1.092502 | -1.092502 | 0.563670 | 0.563670 | -0.585353 | -0.585353 | -0.478025 | -0.478025 | -1.719407 | -1.719407 | -1.719407 | -1.719407 | -1.719407 | -1.719407 | -1.719407 | -1.719407 | -1.719407 | -1.719407 | -1.719407 | -1.719407 | 0.322664 | 0.322664 | -1.054363 | -1.054363 | 1.027101 | 1.027101 |
| 0.085411 | 0.072002 | -1.225385 | 0.841532 | 0.101694 | 0.101694 | 0.101694 | 0.101694 | 0.101694 | 0.101694 | 0.101694 | 0.101694 | 0.101694 | 0.079691 | 0.079691 | 1.544975 | 1.544975 | 0.029334 | 0.029334 | 0.229713 | 0.229713 | 0.173814 | 0.173814 | -1.371842 | -1.371842 | 0.012354 | 0.012354 | 1.729936 | 1.729936 | -0.933230 | -0.933230 | -1.085213 | -1.085213 | -0.174322 | -0.174322 | -0.931847 | -0.931847 | -0.158030 | -0.158030 | 1.181199 | 1.181199 | 0.401527 | 0.401527 | -0.325227 | -0.325227 | -0.325227 | -0.325227 | -0.325227 | -0.325227 | -0.325227 | -0.325227 | -0.325227 | -0.325227 | -0.325227 | -0.325227 | -0.100331 | -0.100331 | -0.286190 | -0.286190 | -0.315430 | -0.315430 |
| 0.085406 | 0.073893 | 0.086107 | 1.155140 | 0.949713 | 0.949713 | 0.949713 | 0.949713 | 0.949713 | 0.949713 | 0.949713 | 0.949713 | 0.949713 | 0.324428 | 0.324428 | 0.865531 | 0.865531 | -0.068814 | -0.068814 | 0.166007 | 0.166007 | 0.528361 | 0.528361 | 0.420236 | 0.420236 | -0.523390 | -0.523390 | 0.849209 | 0.849209 | 0.651298 | 0.651298 | 0.426017 | 0.426017 | -0.559377 | -0.559377 | -1.056556 | -1.056556 | 0.935665 | 0.935665 | 0.659087 | 0.659087 | -0.278120 | -0.278120 | -0.259341 | -0.259341 | -0.259341 | -0.259341 | -0.259341 | -0.259341 | -0.259341 | -0.259341 | -0.259341 | -0.259341 | -0.259341 | -0.259341 | 3.113136 | 3.113136 | -0.154190 | -0.154190 | 0.452175 | 0.452175 |
| 0.085401 | 0.075784 | 1.309117 | -0.506926 | 1.110981 | 1.110981 | 1.110981 | 1.110981 | 1.110981 | 1.110981 | 1.110981 | 1.110981 | 1.110981 | 0.315342 | 0.315342 | 0.102641 | 0.102641 | -0.145137 | -0.145137 | -1.525460 | -1.525460 | 1.260994 | 1.260994 | 0.576400 | 0.576400 | -0.339669 | -0.339669 | 1.850006 | 1.850006 | 0.036878 | 0.036878 | 1.433630 | 1.433630 | -0.011023 | -0.011023 | 0.917995 | 0.917995 | 1.320457 | 1.320457 | -2.285809 | -2.285809 | -0.681746 | -0.681746 | 1.638999 | 1.638999 | 1.638999 | 1.638999 | 1.638999 | 1.638999 | 1.638999 | 1.638999 | 1.638999 | 1.638999 | 1.638999 | 1.638999 | 3.582261 | 3.582261 | 0.207590 | 0.207590 | 1.013210 | 1.013210 |
| 0.085397 | 0.077675 | 0.028020 | -1.597318 | 1.352972 | 1.352972 | 1.352972 | 1.352972 | 1.352972 | 1.352972 | 1.352972 | 1.352972 | 1.352972 | 0.428381 | 0.428381 | -0.223336 | -0.223336 | 1.644977 | 1.644977 | 0.010042 | 0.010042 | 0.832071 | 0.832071 | 2.936356 | 2.936356 | 0.375412 | 0.375412 | 0.648680 | 0.648680 | -1.601239 | -1.601239 | 0.442676 | 0.442676 | 0.943900 | 0.943900 | -5.712147 | -5.712147 | 0.148368 | 0.148368 | -0.821466 | -0.821466 | -0.758762 | -0.758762 | 0.966900 | 0.966900 | 0.966900 | 0.966900 | 0.966900 | 0.966900 | 0.966900 | 0.966900 | 0.966900 | 0.966900 | 0.966900 | 0.966900 | 0.778705 | 0.778705 | -0.768101 | -0.768101 | -7.684948 | -7.684948 |