

Class08

Kelsey Fierro

Background

The goal of this mini-project is for you to explore a complete analysis using the unsupervised learning techniques covered in class. You'll extend what you've learned by combining PCA as a preprocessing step to clustering using data that consist of measurements of cell nuclei of human breast masses. This expands on our RNA-Seq analysis from last day.

The data itself comes from the Wisconsin Breast Cancer Diagnostic Data Set first reported by K. P. Benne and O. L. Mangasarian: "Robust Linear Programming Discrimination of Two Linearly Inseparable Sets".

Values in this data set describe characteristics of the cell nuclei present in digitized images of a fine needle aspiration (FNA) of a breast mass.

Data Import

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read.csv("WisconsinCancer.csv")
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| | id | diagnosis | radius_mean | texture_mean | perimeter_mean | area_mean |
|----|----------|-----------|-------------|--------------|----------------|-----------|
| 1 | 842302 | M | 17.990 | 10.38 | 122.80 | 1001.0 |
| 2 | 842517 | M | 20.570 | 17.77 | 132.90 | 1326.0 |
| 3 | 84300903 | M | 19.690 | 21.25 | 130.00 | 1203.0 |
| 4 | 84348301 | M | 11.420 | 20.38 | 77.58 | 386.1 |
| 5 | 84358402 | M | 20.290 | 14.34 | 135.10 | 1297.0 |
| 6 | 843786 | M | 12.450 | 15.70 | 82.57 | 477.1 |
| 7 | 844359 | M | 18.250 | 19.98 | 119.60 | 1040.0 |
| 8 | 84458202 | M | 13.710 | 20.83 | 90.20 | 577.9 |
| 9 | 844981 | M | 13.000 | 21.82 | 87.50 | 519.8 |
| 10 | 84501001 | M | 12.460 | 24.04 | 83.97 | 475.9 |
| 11 | 845636 | M | 16.020 | 23.24 | 102.70 | 797.8 |
| 12 | 84610002 | M | 15.780 | 17.89 | 103.60 | 781.0 |

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|----|----------|---|--------|-------|--------|--------|
| 13 | 846226 | M | 19.170 | 24.80 | 132.40 | 1123.0 |
| 14 | 846381 | M | 15.850 | 23.95 | 103.70 | 782.7 |
| 15 | 84667401 | M | 13.730 | 22.61 | 93.60 | 578.3 |
| 16 | 84799002 | M | 14.540 | 27.54 | 96.73 | 658.8 |
| 17 | 848406 | M | 14.680 | 20.13 | 94.74 | 684.5 |
| 18 | 84862001 | M | 16.130 | 20.68 | 108.10 | 798.8 |
| 19 | 849014 | M | 19.810 | 22.15 | 130.00 | 1260.0 |
| 20 | 8510426 | B | 13.540 | 14.36 | 87.46 | 566.3 |
| 21 | 8510653 | B | 13.080 | 15.71 | 85.63 | 520.0 |
| 22 | 8510824 | B | 9.504 | 12.44 | 60.34 | 273.9 |
| 23 | 8511133 | M | 15.340 | 14.26 | 102.50 | 704.4 |
| 24 | 851509 | M | 21.160 | 23.04 | 137.20 | 1404.0 |
| 25 | 852552 | M | 16.650 | 21.38 | 110.00 | 904.6 |
| 26 | 852631 | M | 17.140 | 16.40 | 116.00 | 912.7 |
| 27 | 852763 | M | 14.580 | 21.53 | 97.41 | 644.8 |
| 28 | 852781 | M | 18.610 | 20.25 | 122.10 | 1094.0 |
| 29 | 852973 | M | 15.300 | 25.27 | 102.40 | 732.4 |
| 30 | 853201 | M | 17.570 | 15.05 | 115.00 | 955.1 |
| 31 | 853401 | M | 18.630 | 25.11 | 124.80 | 1088.0 |
| 32 | 853612 | M | 11.840 | 18.70 | 77.93 | 440.6 |
| 33 | 85382601 | M | 17.020 | 23.98 | 112.80 | 899.3 |
| 34 | 854002 | M | 19.270 | 26.47 | 127.90 | 1162.0 |
| 35 | 854039 | M | 16.130 | 17.88 | 107.00 | 807.2 |
| 36 | 854253 | M | 16.740 | 21.59 | 110.10 | 869.5 |
| 37 | 854268 | M | 14.250 | 21.72 | 93.63 | 633.0 |
| 38 | 854941 | B | 13.030 | 18.42 | 82.61 | 523.8 |
| 39 | 855133 | M | 14.990 | 25.20 | 95.54 | 698.8 |
| 40 | 855138 | M | 13.480 | 20.82 | 88.40 | 559.2 |
| 41 | 855167 | M | 13.440 | 21.58 | 86.18 | 563.0 |
| 42 | 855563 | M | 10.950 | 21.35 | 71.90 | 371.1 |
| 43 | 855625 | M | 19.070 | 24.81 | 128.30 | 1104.0 |
| 44 | 856106 | M | 13.280 | 20.28 | 87.32 | 545.2 |
| 45 | 85638502 | M | 13.170 | 21.81 | 85.42 | 531.5 |
| 46 | 857010 | M | 18.650 | 17.60 | 123.70 | 1076.0 |
| 47 | 85713702 | B | 8.196 | 16.84 | 51.71 | 201.9 |
| 48 | 85715 | M | 13.170 | 18.66 | 85.98 | 534.6 |
| 49 | 857155 | B | 12.050 | 14.63 | 78.04 | 449.3 |
| 50 | 857156 | B | 13.490 | 22.30 | 86.91 | 561.0 |
| 51 | 857343 | B | 11.760 | 21.60 | 74.72 | 427.9 |
| 52 | 857373 | B | 13.640 | 16.34 | 87.21 | 571.8 |
| 53 | 857374 | B | 11.940 | 18.24 | 75.71 | 437.6 |
| 54 | 857392 | M | 18.220 | 18.70 | 120.30 | 1033.0 |
| 55 | 857438 | M | 15.100 | 22.02 | 97.26 | 712.8 |

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|----|----------|---|--------|-------|--------|--------|
| 56 | 85759902 | B | 11.520 | 18.75 | 73.34 | 409.0 |
| 57 | 857637 | M | 19.210 | 18.57 | 125.50 | 1152.0 |
| 58 | 857793 | M | 14.710 | 21.59 | 95.55 | 656.9 |
| 59 | 857810 | B | 13.050 | 19.31 | 82.61 | 527.2 |
| 60 | 858477 | B | 8.618 | 11.79 | 54.34 | 224.5 |
| 61 | 858970 | B | 10.170 | 14.88 | 64.55 | 311.9 |
| 62 | 858981 | B | 8.598 | 20.98 | 54.66 | 221.8 |
| 63 | 858986 | M | 14.250 | 22.15 | 96.42 | 645.7 |
| 64 | 859196 | B | 9.173 | 13.86 | 59.20 | 260.9 |
| 65 | 85922302 | M | 12.680 | 23.84 | 82.69 | 499.0 |
| 66 | 859283 | M | 14.780 | 23.94 | 97.40 | 668.3 |
| 67 | 859464 | B | 9.465 | 21.01 | 60.11 | 269.4 |
| 68 | 859465 | B | 11.310 | 19.04 | 71.80 | 394.1 |
| 69 | 859471 | B | 9.029 | 17.33 | 58.79 | 250.5 |
| 70 | 859487 | B | 12.780 | 16.49 | 81.37 | 502.5 |
| 71 | 859575 | M | 18.940 | 21.31 | 123.60 | 1130.0 |
| 72 | 859711 | B | 8.888 | 14.64 | 58.79 | 244.0 |
| 73 | 859717 | M | 17.200 | 24.52 | 114.20 | 929.4 |
| 74 | 859983 | M | 13.800 | 15.79 | 90.43 | 584.1 |
| 75 | 8610175 | B | 12.310 | 16.52 | 79.19 | 470.9 |
| 76 | 8610404 | M | 16.070 | 19.65 | 104.10 | 817.7 |
| 77 | 8610629 | B | 13.530 | 10.94 | 87.91 | 559.2 |
| 78 | 8610637 | M | 18.050 | 16.15 | 120.20 | 1006.0 |
| 79 | 8610862 | M | 20.180 | 23.97 | 143.70 | 1245.0 |
| 80 | 8610908 | B | 12.860 | 18.00 | 83.19 | 506.3 |
| 81 | 861103 | B | 11.450 | 20.97 | 73.81 | 401.5 |
| 82 | 8611161 | B | 13.340 | 15.86 | 86.49 | 520.0 |
| 83 | 8611555 | M | 25.220 | 24.91 | 171.50 | 1878.0 |
| 84 | 8611792 | M | 19.100 | 26.29 | 129.10 | 1132.0 |
| 85 | 8612080 | B | 12.000 | 15.65 | 76.95 | 443.3 |
| 86 | 8612399 | M | 18.460 | 18.52 | 121.10 | 1075.0 |
| 87 | 86135501 | M | 14.480 | 21.46 | 94.25 | 648.2 |
| 88 | 86135502 | M | 19.020 | 24.59 | 122.00 | 1076.0 |
| 89 | 861597 | B | 12.360 | 21.80 | 79.78 | 466.1 |
| 90 | 861598 | B | 14.640 | 15.24 | 95.77 | 651.9 |
| 91 | 861648 | B | 14.620 | 24.02 | 94.57 | 662.7 |
| 92 | 861799 | M | 15.370 | 22.76 | 100.20 | 728.2 |
| 93 | 861853 | B | 13.270 | 14.76 | 84.74 | 551.7 |
| 94 | 862009 | B | 13.450 | 18.30 | 86.60 | 555.1 |
| 95 | 862028 | M | 15.060 | 19.83 | 100.30 | 705.6 |
| 96 | 86208 | M | 20.260 | 23.03 | 132.40 | 1264.0 |
| 97 | 86211 | B | 12.180 | 17.84 | 77.79 | 451.1 |
| 98 | 862261 | B | 9.787 | 19.94 | 62.11 | 294.5 |

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|-----|----------|---|--------|-------|--------|--------|
| 99 | 862485 | B | 11.600 | 12.84 | 74.34 | 412.6 |
| 100 | 862548 | M | 14.420 | 19.77 | 94.48 | 642.5 |
| 101 | 862717 | M | 13.610 | 24.98 | 88.05 | 582.7 |
| 102 | 862722 | B | 6.981 | 13.43 | 43.79 | 143.5 |
| 103 | 862965 | B | 12.180 | 20.52 | 77.22 | 458.7 |
| 104 | 862980 | B | 9.876 | 19.40 | 63.95 | 298.3 |
| 105 | 862989 | B | 10.490 | 19.29 | 67.41 | 336.1 |
| 106 | 863030 | M | 13.110 | 15.56 | 87.21 | 530.2 |
| 107 | 863031 | B | 11.640 | 18.33 | 75.17 | 412.5 |
| 108 | 863270 | B | 12.360 | 18.54 | 79.01 | 466.7 |
| 109 | 86355 | M | 22.270 | 19.67 | 152.80 | 1509.0 |
| 110 | 864018 | B | 11.340 | 21.26 | 72.48 | 396.5 |
| 111 | 864033 | B | 9.777 | 16.99 | 62.50 | 290.2 |
| 112 | 86408 | B | 12.630 | 20.76 | 82.15 | 480.4 |
| 113 | 86409 | B | 14.260 | 19.65 | 97.83 | 629.9 |
| 114 | 864292 | B | 10.510 | 20.19 | 68.64 | 334.2 |
| 115 | 864496 | B | 8.726 | 15.83 | 55.84 | 230.9 |
| 116 | 864685 | B | 11.930 | 21.53 | 76.53 | 438.6 |
| 117 | 864726 | B | 8.950 | 15.76 | 58.74 | 245.2 |
| 118 | 864729 | M | 14.870 | 16.67 | 98.64 | 682.5 |
| 119 | 864877 | M | 15.780 | 22.91 | 105.70 | 782.6 |
| 120 | 865128 | M | 17.950 | 20.01 | 114.20 | 982.0 |
| 121 | 865137 | B | 11.410 | 10.82 | 73.34 | 403.3 |
| 122 | 86517 | M | 18.660 | 17.12 | 121.40 | 1077.0 |
| 123 | 865423 | M | 24.250 | 20.20 | 166.20 | 1761.0 |
| 124 | 865432 | B | 14.500 | 10.89 | 94.28 | 640.7 |
| 125 | 865468 | B | 13.370 | 16.39 | 86.10 | 553.5 |
| 126 | 86561 | B | 13.850 | 17.21 | 88.44 | 588.7 |
| 127 | 866083 | M | 13.610 | 24.69 | 87.76 | 572.6 |
| 128 | 866203 | M | 19.000 | 18.91 | 123.40 | 1138.0 |
| 129 | 866458 | B | 15.100 | 16.39 | 99.58 | 674.5 |
| 130 | 866674 | M | 19.790 | 25.12 | 130.40 | 1192.0 |
| 131 | 866714 | B | 12.190 | 13.29 | 79.08 | 455.8 |
| 132 | 8670 | M | 15.460 | 19.48 | 101.70 | 748.9 |
| 133 | 86730502 | M | 16.160 | 21.54 | 106.20 | 809.8 |
| 134 | 867387 | B | 15.710 | 13.93 | 102.00 | 761.7 |
| 135 | 867739 | M | 18.450 | 21.91 | 120.20 | 1075.0 |
| 136 | 868202 | M | 12.770 | 22.47 | 81.72 | 506.3 |
| 137 | 868223 | B | 11.710 | 16.67 | 74.72 | 423.6 |
| 138 | 868682 | B | 11.430 | 15.39 | 73.06 | 399.8 |
| 139 | 868826 | M | 14.950 | 17.57 | 96.85 | 678.1 |
| 140 | 868871 | B | 11.280 | 13.39 | 73.00 | 384.8 |
| 141 | 868999 | B | 9.738 | 11.97 | 61.24 | 288.5 |

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| 142 | 869104 | M | 16.110 | 18.05 | 105.10 | 813.0 |
| 143 | 869218 | B | 11.430 | 17.31 | 73.66 | 398.0 |
| 144 | 869224 | B | 12.900 | 15.92 | 83.74 | 512.2 |
| 145 | 869254 | B | 10.750 | 14.97 | 68.26 | 355.3 |
| 146 | 869476 | B | 11.900 | 14.65 | 78.11 | 432.8 |
| 147 | 869691 | M | 11.800 | 16.58 | 78.99 | 432.0 |
| 148 | 86973701 | B | 14.950 | 18.77 | 97.84 | 689.5 |
| 149 | 86973702 | B | 14.440 | 15.18 | 93.97 | 640.1 |
| 150 | 869931 | B | 13.740 | 17.91 | 88.12 | 585.0 |
| 151 | 871001501 | B | 13.000 | 20.78 | 83.51 | 519.4 |
| 152 | 871001502 | B | 8.219 | 20.70 | 53.27 | 203.9 |
| 153 | 8710441 | B | 9.731 | 15.34 | 63.78 | 300.2 |
| 154 | 87106 | B | 11.150 | 13.08 | 70.87 | 381.9 |
| 155 | 8711002 | B | 13.150 | 15.34 | 85.31 | 538.9 |
| 156 | 8711003 | B | 12.250 | 17.94 | 78.27 | 460.3 |
| 157 | 8711202 | M | 17.680 | 20.74 | 117.40 | 963.7 |
| 158 | 8711216 | B | 16.840 | 19.46 | 108.40 | 880.2 |
| 159 | 871122 | B | 12.060 | 12.74 | 76.84 | 448.6 |
| 160 | 871149 | B | 10.900 | 12.96 | 68.69 | 366.8 |
| 161 | 8711561 | B | 11.750 | 20.18 | 76.10 | 419.8 |
| 162 | 8711803 | M | 19.190 | 15.94 | 126.30 | 1157.0 |
| 163 | 871201 | M | 19.590 | 18.15 | 130.70 | 1214.0 |
| 164 | 8712064 | B | 12.340 | 22.22 | 79.85 | 464.5 |
| 165 | 8712289 | M | 23.270 | 22.04 | 152.10 | 1686.0 |
| 166 | 8712291 | B | 14.970 | 19.76 | 95.50 | 690.2 |
| 167 | 87127 | B | 10.800 | 9.71 | 68.77 | 357.6 |
| 168 | 8712729 | M | 16.780 | 18.80 | 109.30 | 886.3 |
| 169 | 8712766 | M | 17.470 | 24.68 | 116.10 | 984.6 |
| 170 | 8712853 | B | 14.970 | 16.95 | 96.22 | 685.9 |
| 171 | 87139402 | B | 12.320 | 12.39 | 78.85 | 464.1 |
| 172 | 87163 | M | 13.430 | 19.63 | 85.84 | 565.4 |
| 173 | 87164 | M | 15.460 | 11.89 | 102.50 | 736.9 |
| 174 | 871641 | B | 11.080 | 14.71 | 70.21 | 372.7 |
| 175 | 871642 | B | 10.660 | 15.15 | 67.49 | 349.6 |
| 176 | 872113 | B | 8.671 | 14.45 | 54.42 | 227.2 |
| 177 | 872608 | B | 9.904 | 18.06 | 64.60 | 302.4 |
| 178 | 87281702 | M | 16.460 | 20.11 | 109.30 | 832.9 |
| 179 | 873357 | B | 13.010 | 22.22 | 82.01 | 526.4 |
| 180 | 873586 | B | 12.810 | 13.06 | 81.29 | 508.8 |
| 181 | 873592 | M | 27.220 | 21.87 | 182.10 | 2250.0 |
| 182 | 873593 | M | 21.090 | 26.57 | 142.70 | 1311.0 |
| 183 | 873701 | M | 15.700 | 20.31 | 101.20 | 766.6 |
| 184 | 873843 | B | 11.410 | 14.92 | 73.53 | 402.0 |

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| 185 | 873885 | M | 15.280 | 22.41 | 98.92 | 710.6 |
| 186 | 874158 | B | 10.080 | 15.11 | 63.76 | 317.5 |
| 187 | 874217 | M | 18.310 | 18.58 | 118.60 | 1041.0 |
| 188 | 874373 | B | 11.710 | 17.19 | 74.68 | 420.3 |
| 189 | 874662 | B | 11.810 | 17.39 | 75.27 | 428.9 |
| 190 | 874839 | B | 12.300 | 15.90 | 78.83 | 463.7 |
| 191 | 874858 | M | 14.220 | 23.12 | 94.37 | 609.9 |
| 192 | 875093 | B | 12.770 | 21.41 | 82.02 | 507.4 |
| 193 | 875099 | B | 9.720 | 18.22 | 60.73 | 288.1 |
| 194 | 875263 | M | 12.340 | 26.86 | 81.15 | 477.4 |
| 195 | 87556202 | M | 14.860 | 23.21 | 100.40 | 671.4 |
| 196 | 875878 | B | 12.910 | 16.33 | 82.53 | 516.4 |
| 197 | 875938 | M | 13.770 | 22.29 | 90.63 | 588.9 |
| 198 | 877159 | M | 18.080 | 21.84 | 117.40 | 1024.0 |
| 199 | 877486 | M | 19.180 | 22.49 | 127.50 | 1148.0 |
| 200 | 877500 | M | 14.450 | 20.22 | 94.49 | 642.7 |
| 201 | 877501 | B | 12.230 | 19.56 | 78.54 | 461.0 |
| 202 | 877989 | M | 17.540 | 19.32 | 115.10 | 951.6 |
| 203 | 878796 | M | 23.290 | 26.67 | 158.90 | 1685.0 |
| 204 | 87880 | M | 13.810 | 23.75 | 91.56 | 597.8 |
| 205 | 87930 | B | 12.470 | 18.60 | 81.09 | 481.9 |
| 206 | 879523 | M | 15.120 | 16.68 | 98.78 | 716.6 |
| 207 | 879804 | B | 9.876 | 17.27 | 62.92 | 295.4 |
| 208 | 879830 | M | 17.010 | 20.26 | 109.70 | 904.3 |
| 209 | 8810158 | B | 13.110 | 22.54 | 87.02 | 529.4 |
| 210 | 8810436 | B | 15.270 | 12.91 | 98.17 | 725.5 |
| 211 | 881046502 | M | 20.580 | 22.14 | 134.70 | 1290.0 |
| 212 | 8810528 | B | 11.840 | 18.94 | 75.51 | 428.0 |
| 213 | 8810703 | M | 28.110 | 18.47 | 188.50 | 2499.0 |
| 214 | 881094802 | M | 17.420 | 25.56 | 114.50 | 948.0 |
| 215 | 8810955 | M | 14.190 | 23.81 | 92.87 | 610.7 |
| 216 | 8810987 | M | 13.860 | 16.93 | 90.96 | 578.9 |
| 217 | 8811523 | B | 11.890 | 18.35 | 77.32 | 432.2 |
| 218 | 8811779 | B | 10.200 | 17.48 | 65.05 | 321.2 |
| 219 | 8811842 | M | 19.800 | 21.56 | 129.70 | 1230.0 |
| 220 | 88119002 | M | 19.530 | 32.47 | 128.00 | 1223.0 |
| 221 | 8812816 | B | 13.650 | 13.16 | 87.88 | 568.9 |
| 222 | 8812818 | B | 13.560 | 13.90 | 88.59 | 561.3 |
| 223 | 8812844 | B | 10.180 | 17.53 | 65.12 | 313.1 |
| 224 | 8812877 | M | 15.750 | 20.25 | 102.60 | 761.3 |
| 225 | 8813129 | B | 13.270 | 17.02 | 84.55 | 546.4 |
| 226 | 88143502 | B | 14.340 | 13.47 | 92.51 | 641.2 |
| 227 | 88147101 | B | 10.440 | 15.46 | 66.62 | 329.6 |

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| 228 | 88147102 | B | 15.000 | 15.51 | 97.45 | 684.5 |
| 229 | 88147202 | B | 12.620 | 23.97 | 81.35 | 496.4 |
| 230 | 881861 | M | 12.830 | 22.33 | 85.26 | 503.2 |
| 231 | 881972 | M | 17.050 | 19.08 | 113.40 | 895.0 |
| 232 | 88199202 | B | 11.320 | 27.08 | 71.76 | 395.7 |
| 233 | 88203002 | B | 11.220 | 33.81 | 70.79 | 386.8 |
| 234 | 88206102 | M | 20.510 | 27.81 | 134.40 | 1319.0 |
| 235 | 882488 | B | 9.567 | 15.91 | 60.21 | 279.6 |
| 236 | 88249602 | B | 14.030 | 21.25 | 89.79 | 603.4 |
| 237 | 88299702 | M | 23.210 | 26.97 | 153.50 | 1670.0 |
| 238 | 883263 | M | 20.480 | 21.46 | 132.50 | 1306.0 |
| 239 | 883270 | B | 14.220 | 27.85 | 92.55 | 623.9 |
| 240 | 88330202 | M | 17.460 | 39.28 | 113.40 | 920.6 |
| 241 | 88350402 | B | 13.640 | 15.60 | 87.38 | 575.3 |
| 242 | 883539 | B | 12.420 | 15.04 | 78.61 | 476.5 |
| 243 | 883852 | B | 11.300 | 18.19 | 73.93 | 389.4 |
| 244 | 88411702 | B | 13.750 | 23.77 | 88.54 | 590.0 |
| 245 | 884180 | M | 19.400 | 23.50 | 129.10 | 1155.0 |
| 246 | 884437 | B | 10.480 | 19.86 | 66.72 | 337.7 |
| 247 | 884448 | B | 13.200 | 17.43 | 84.13 | 541.6 |
| 248 | 884626 | B | 12.890 | 14.11 | 84.95 | 512.2 |
| 249 | 88466802 | B | 10.650 | 25.22 | 68.01 | 347.0 |
| 250 | 884689 | B | 11.520 | 14.93 | 73.87 | 406.3 |
| 251 | 884948 | M | 20.940 | 23.56 | 138.90 | 1364.0 |
| 252 | 88518501 | B | 11.500 | 18.45 | 73.28 | 407.4 |
| 253 | 885429 | M | 19.730 | 19.82 | 130.70 | 1206.0 |
| 254 | 8860702 | M | 17.300 | 17.08 | 113.00 | 928.2 |
| 255 | 886226 | M | 19.450 | 19.33 | 126.50 | 1169.0 |
| 256 | 886452 | M | 13.960 | 17.05 | 91.43 | 602.4 |
| 257 | 88649001 | M | 19.550 | 28.77 | 133.60 | 1207.0 |
| 258 | 886776 | M | 15.320 | 17.27 | 103.20 | 713.3 |
| 259 | 887181 | M | 15.660 | 23.20 | 110.20 | 773.5 |
| 260 | 88725602 | M | 15.530 | 33.56 | 103.70 | 744.9 |
| 261 | 887549 | M | 20.310 | 27.06 | 132.90 | 1288.0 |
| 262 | 888264 | M | 17.350 | 23.06 | 111.00 | 933.1 |
| 263 | 888570 | M | 17.290 | 22.13 | 114.40 | 947.8 |
| 264 | 889403 | M | 15.610 | 19.38 | 100.00 | 758.6 |
| 265 | 889719 | M | 17.190 | 22.07 | 111.60 | 928.3 |
| 266 | 88995002 | M | 20.730 | 31.12 | 135.70 | 1419.0 |
| 267 | 8910251 | B | 10.600 | 18.95 | 69.28 | 346.4 |
| 268 | 8910499 | B | 13.590 | 21.84 | 87.16 | 561.0 |
| 269 | 8910506 | B | 12.870 | 16.21 | 82.38 | 512.2 |
| 270 | 8910720 | B | 10.710 | 20.39 | 69.50 | 344.9 |

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| 271 | 8910721 | B | 14.290 | 16.82 | 90.30 | 632.6 |
| 272 | 8910748 | B | 11.290 | 13.04 | 72.23 | 388.0 |
| 273 | 8910988 | M | 21.750 | 20.99 | 147.30 | 1491.0 |
| 274 | 8910996 | B | 9.742 | 15.67 | 61.50 | 289.9 |
| 275 | 8911163 | M | 17.930 | 24.48 | 115.20 | 998.9 |
| 276 | 8911164 | B | 11.890 | 17.36 | 76.20 | 435.6 |
| 277 | 8911230 | B | 11.330 | 14.16 | 71.79 | 396.6 |
| 278 | 8911670 | M | 18.810 | 19.98 | 120.90 | 1102.0 |
| 279 | 8911800 | B | 13.590 | 17.84 | 86.24 | 572.3 |
| 280 | 8911834 | B | 13.850 | 15.18 | 88.99 | 587.4 |
| 281 | 8912049 | M | 19.160 | 26.60 | 126.20 | 1138.0 |
| 282 | 8912055 | B | 11.740 | 14.02 | 74.24 | 427.3 |
| 283 | 89122 | M | 19.400 | 18.18 | 127.20 | 1145.0 |
| 284 | 8912280 | M | 16.240 | 18.77 | 108.80 | 805.1 |
| 285 | 8912284 | B | 12.890 | 15.70 | 84.08 | 516.6 |
| 286 | 8912521 | B | 12.580 | 18.40 | 79.83 | 489.0 |
| 287 | 8912909 | B | 11.940 | 20.76 | 77.87 | 441.0 |
| 288 | 8913 | B | 12.890 | 13.12 | 81.89 | 515.9 |
| 289 | 8913049 | B | 11.260 | 19.96 | 73.72 | 394.1 |
| 290 | 89143601 | B | 11.370 | 18.89 | 72.17 | 396.0 |
| 291 | 89143602 | B | 14.410 | 19.73 | 96.03 | 651.0 |
| 292 | 8915 | B | 14.960 | 19.10 | 97.03 | 687.3 |
| 293 | 891670 | B | 12.950 | 16.02 | 83.14 | 513.7 |
| 294 | 891703 | B | 11.850 | 17.46 | 75.54 | 432.7 |
| 295 | 891716 | B | 12.720 | 13.78 | 81.78 | 492.1 |
| 296 | 891923 | B | 13.770 | 13.27 | 88.06 | 582.7 |
| 297 | 891936 | B | 10.910 | 12.35 | 69.14 | 363.7 |
| 298 | 892189 | M | 11.760 | 18.14 | 75.00 | 431.1 |
| 299 | 892214 | B | 14.260 | 18.17 | 91.22 | 633.1 |
| 300 | 892399 | B | 10.510 | 23.09 | 66.85 | 334.2 |
| 301 | 892438 | M | 19.530 | 18.90 | 129.50 | 1217.0 |
| 302 | 892604 | B | 12.460 | 19.89 | 80.43 | 471.3 |
| 303 | 89263202 | M | 20.090 | 23.86 | 134.70 | 1247.0 |
| 304 | 892657 | B | 10.490 | 18.61 | 66.86 | 334.3 |
| 305 | 89296 | B | 11.460 | 18.16 | 73.59 | 403.1 |
| 306 | 893061 | B | 11.600 | 24.49 | 74.23 | 417.2 |
| 307 | 89344 | B | 13.200 | 15.82 | 84.07 | 537.3 |
| 308 | 89346 | B | 9.000 | 14.40 | 56.36 | 246.3 |
| 309 | 893526 | B | 13.500 | 12.71 | 85.69 | 566.2 |
| 310 | 893548 | B | 13.050 | 13.84 | 82.71 | 530.6 |
| 311 | 893783 | B | 11.700 | 19.11 | 74.33 | 418.7 |
| 312 | 89382601 | B | 14.610 | 15.69 | 92.68 | 664.9 |
| 313 | 89382602 | B | 12.760 | 13.37 | 82.29 | 504.1 |

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|-----|----------|---|--------|-------|--------|--------|
| 314 | 893988 | B | 11.540 | 10.72 | 73.73 | 409.1 |
| 315 | 894047 | B | 8.597 | 18.60 | 54.09 | 221.2 |
| 316 | 894089 | B | 12.490 | 16.85 | 79.19 | 481.6 |
| 317 | 894090 | B | 12.180 | 14.08 | 77.25 | 461.4 |
| 318 | 894326 | M | 18.220 | 18.87 | 118.70 | 1027.0 |
| 319 | 894329 | B | 9.042 | 18.90 | 60.07 | 244.5 |
| 320 | 894335 | B | 12.430 | 17.00 | 78.60 | 477.3 |
| 321 | 894604 | B | 10.250 | 16.18 | 66.52 | 324.2 |
| 322 | 894618 | M | 20.160 | 19.66 | 131.10 | 1274.0 |
| 323 | 894855 | B | 12.860 | 13.32 | 82.82 | 504.8 |
| 324 | 895100 | M | 20.340 | 21.51 | 135.90 | 1264.0 |
| 325 | 89511501 | B | 12.200 | 15.21 | 78.01 | 457.9 |
| 326 | 89511502 | B | 12.670 | 17.30 | 81.25 | 489.9 |
| 327 | 89524 | B | 14.110 | 12.88 | 90.03 | 616.5 |
| 328 | 895299 | B | 12.030 | 17.93 | 76.09 | 446.0 |
| 329 | 8953902 | M | 16.270 | 20.71 | 106.90 | 813.7 |
| 330 | 895633 | M | 16.260 | 21.88 | 107.50 | 826.8 |
| 331 | 896839 | M | 16.030 | 15.51 | 105.80 | 793.2 |
| 332 | 896864 | B | 12.980 | 19.35 | 84.52 | 514.0 |
| 333 | 897132 | B | 11.220 | 19.86 | 71.94 | 387.3 |
| 334 | 897137 | B | 11.250 | 14.78 | 71.38 | 390.0 |
| 335 | 897374 | B | 12.300 | 19.02 | 77.88 | 464.4 |
| 336 | 89742801 | M | 17.060 | 21.00 | 111.80 | 918.6 |
| 337 | 897604 | B | 12.990 | 14.23 | 84.08 | 514.3 |
| 338 | 897630 | M | 18.770 | 21.43 | 122.90 | 1092.0 |
| 339 | 897880 | B | 10.050 | 17.53 | 64.41 | 310.8 |
| 340 | 89812 | M | 23.510 | 24.27 | 155.10 | 1747.0 |
| 341 | 89813 | B | 14.420 | 16.54 | 94.15 | 641.2 |
| 342 | 898143 | B | 9.606 | 16.84 | 61.64 | 280.5 |
| 343 | 89827 | B | 11.060 | 14.96 | 71.49 | 373.9 |
| 344 | 898431 | M | 19.680 | 21.68 | 129.90 | 1194.0 |
| 345 | 89864002 | B | 11.710 | 15.45 | 75.03 | 420.3 |
| 346 | 898677 | B | 10.260 | 14.71 | 66.20 | 321.6 |
| 347 | 898678 | B | 12.060 | 18.90 | 76.66 | 445.3 |
| 348 | 89869 | B | 14.760 | 14.74 | 94.87 | 668.7 |
| 349 | 898690 | B | 11.470 | 16.03 | 73.02 | 402.7 |
| 350 | 899147 | B | 11.950 | 14.96 | 77.23 | 426.7 |
| 351 | 899187 | B | 11.660 | 17.07 | 73.70 | 421.0 |
| 352 | 899667 | M | 15.750 | 19.22 | 107.10 | 758.6 |
| 353 | 899987 | M | 25.730 | 17.46 | 174.20 | 2010.0 |
| 354 | 9010018 | M | 15.080 | 25.74 | 98.00 | 716.6 |
| 355 | 901011 | B | 11.140 | 14.07 | 71.24 | 384.6 |
| 356 | 9010258 | B | 12.560 | 19.07 | 81.92 | 485.8 |

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|-----|-----------|---|--------|-------|--------|--------|
| 357 | 9010259 | B | 13.050 | 18.59 | 85.09 | 512.0 |
| 358 | 901028 | B | 13.870 | 16.21 | 88.52 | 593.7 |
| 359 | 9010333 | B | 8.878 | 15.49 | 56.74 | 241.0 |
| 360 | 901034301 | B | 9.436 | 18.32 | 59.82 | 278.6 |
| 361 | 901034302 | B | 12.540 | 18.07 | 79.42 | 491.9 |
| 362 | 901041 | B | 13.300 | 21.57 | 85.24 | 546.1 |
| 363 | 9010598 | B | 12.760 | 18.84 | 81.87 | 496.6 |
| 364 | 9010872 | B | 16.500 | 18.29 | 106.60 | 838.1 |
| 365 | 9010877 | B | 13.400 | 16.95 | 85.48 | 552.4 |
| 366 | 901088 | M | 20.440 | 21.78 | 133.80 | 1293.0 |
| 367 | 9011494 | M | 20.200 | 26.83 | 133.70 | 1234.0 |
| 368 | 9011495 | B | 12.210 | 18.02 | 78.31 | 458.4 |
| 369 | 9011971 | M | 21.710 | 17.25 | 140.90 | 1546.0 |
| 370 | 9012000 | M | 22.010 | 21.90 | 147.20 | 1482.0 |
| 371 | 9012315 | M | 16.350 | 23.29 | 109.00 | 840.4 |
| 372 | 9012568 | B | 15.190 | 13.21 | 97.65 | 711.8 |
| 373 | 9012795 | M | 21.370 | 15.10 | 141.30 | 1386.0 |
| 374 | 901288 | M | 20.640 | 17.35 | 134.80 | 1335.0 |
| 375 | 9013005 | B | 13.690 | 16.07 | 87.84 | 579.1 |
| 376 | 901303 | B | 16.170 | 16.07 | 106.30 | 788.5 |
| 377 | 901315 | B | 10.570 | 20.22 | 70.15 | 338.3 |
| 378 | 9013579 | B | 13.460 | 28.21 | 85.89 | 562.1 |
| 379 | 9013594 | B | 13.660 | 15.15 | 88.27 | 580.6 |
| 380 | 9013838 | M | 11.080 | 18.83 | 73.30 | 361.6 |
| 381 | 901549 | B | 11.270 | 12.96 | 73.16 | 386.3 |
| 382 | 901836 | B | 11.040 | 14.93 | 70.67 | 372.7 |
| 383 | 90250 | B | 12.050 | 22.72 | 78.75 | 447.8 |
| 384 | 90251 | B | 12.390 | 17.48 | 80.64 | 462.9 |
| 385 | 902727 | B | 13.280 | 13.72 | 85.79 | 541.8 |
| 386 | 90291 | M | 14.600 | 23.29 | 93.97 | 664.7 |
| 387 | 902975 | B | 12.210 | 14.09 | 78.78 | 462.0 |
| 388 | 902976 | B | 13.880 | 16.16 | 88.37 | 596.6 |
| 389 | 903011 | B | 11.270 | 15.50 | 73.38 | 392.0 |
| 390 | 90312 | M | 19.550 | 23.21 | 128.90 | 1174.0 |
| 391 | 90317302 | B | 10.260 | 12.22 | 65.75 | 321.6 |
| 392 | 903483 | B | 8.734 | 16.84 | 55.27 | 234.3 |
| 393 | 903507 | M | 15.490 | 19.97 | 102.40 | 744.7 |
| 394 | 903516 | M | 21.610 | 22.28 | 144.40 | 1407.0 |
| 395 | 903554 | B | 12.100 | 17.72 | 78.07 | 446.2 |
| 396 | 903811 | B | 14.060 | 17.18 | 89.75 | 609.1 |
| 397 | 90401601 | B | 13.510 | 18.89 | 88.10 | 558.1 |
| 398 | 90401602 | B | 12.800 | 17.46 | 83.05 | 508.3 |
| 399 | 904302 | B | 11.060 | 14.83 | 70.31 | 378.2 |

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|-----|----------|---|--------|-------|--------|--------|
| 400 | 904357 | B | 11.800 | 17.26 | 75.26 | 431.9 |
| 401 | 90439701 | M | 17.910 | 21.02 | 124.40 | 994.0 |
| 402 | 904647 | B | 11.930 | 10.91 | 76.14 | 442.7 |
| 403 | 904689 | B | 12.960 | 18.29 | 84.18 | 525.2 |
| 404 | 9047 | B | 12.940 | 16.17 | 83.18 | 507.6 |
| 405 | 904969 | B | 12.340 | 14.95 | 78.29 | 469.1 |
| 406 | 904971 | B | 10.940 | 18.59 | 70.39 | 370.0 |
| 407 | 905189 | B | 16.140 | 14.86 | 104.30 | 800.0 |
| 408 | 905190 | B | 12.850 | 21.37 | 82.63 | 514.5 |
| 409 | 90524101 | M | 17.990 | 20.66 | 117.80 | 991.7 |
| 410 | 905501 | B | 12.270 | 17.92 | 78.41 | 466.1 |
| 411 | 905502 | B | 11.360 | 17.57 | 72.49 | 399.8 |
| 412 | 905520 | B | 11.040 | 16.83 | 70.92 | 373.2 |
| 413 | 905539 | B | 9.397 | 21.68 | 59.75 | 268.8 |
| 414 | 905557 | B | 14.990 | 22.11 | 97.53 | 693.7 |
| 415 | 905680 | M | 15.130 | 29.81 | 96.71 | 719.5 |
| 416 | 905686 | B | 11.890 | 21.17 | 76.39 | 433.8 |
| 417 | 905978 | B | 9.405 | 21.70 | 59.60 | 271.2 |
| 418 | 90602302 | M | 15.500 | 21.08 | 102.90 | 803.1 |
| 419 | 906024 | B | 12.700 | 12.17 | 80.88 | 495.0 |
| 420 | 906290 | B | 11.160 | 21.41 | 70.95 | 380.3 |
| 421 | 906539 | B | 11.570 | 19.04 | 74.20 | 409.7 |
| 422 | 906564 | B | 14.690 | 13.98 | 98.22 | 656.1 |
| 423 | 906616 | B | 11.610 | 16.02 | 75.46 | 408.2 |
| 424 | 906878 | B | 13.660 | 19.13 | 89.46 | 575.3 |
| 425 | 907145 | B | 9.742 | 19.12 | 61.93 | 289.7 |
| 426 | 907367 | B | 10.030 | 21.28 | 63.19 | 307.3 |
| 427 | 907409 | B | 10.480 | 14.98 | 67.49 | 333.6 |
| 428 | 90745 | B | 10.800 | 21.98 | 68.79 | 359.9 |
| 429 | 90769601 | B | 11.130 | 16.62 | 70.47 | 381.1 |
| 430 | 90769602 | B | 12.720 | 17.67 | 80.98 | 501.3 |
| 431 | 907914 | M | 14.900 | 22.53 | 102.10 | 685.0 |
| 432 | 907915 | B | 12.400 | 17.68 | 81.47 | 467.8 |
| 433 | 908194 | M | 20.180 | 19.54 | 133.80 | 1250.0 |
| 434 | 908445 | M | 18.820 | 21.97 | 123.70 | 1110.0 |
| 435 | 908469 | B | 14.860 | 16.94 | 94.89 | 673.7 |
| 436 | 908489 | M | 13.980 | 19.62 | 91.12 | 599.5 |
| 437 | 908916 | B | 12.870 | 19.54 | 82.67 | 509.2 |
| 438 | 909220 | B | 14.040 | 15.98 | 89.78 | 611.2 |
| 439 | 909231 | B | 13.850 | 19.60 | 88.68 | 592.6 |
| 440 | 909410 | B | 14.020 | 15.66 | 89.59 | 606.5 |
| 441 | 909411 | B | 10.970 | 17.20 | 71.73 | 371.5 |
| 442 | 909445 | M | 17.270 | 25.42 | 112.40 | 928.8 |

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|-----|-----------|---|--------|-------|--------|--------|
| 443 | 90944601 | B | 13.780 | 15.79 | 88.37 | 585.9 |
| 444 | 909777 | B | 10.570 | 18.32 | 66.82 | 340.9 |
| 445 | 9110127 | M | 18.030 | 16.85 | 117.50 | 990.0 |
| 446 | 9110720 | B | 11.990 | 24.89 | 77.61 | 441.3 |
| 447 | 9110732 | M | 17.750 | 28.03 | 117.30 | 981.6 |
| 448 | 9110944 | B | 14.800 | 17.66 | 95.88 | 674.8 |
| 449 | 911150 | B | 14.530 | 19.34 | 94.25 | 659.7 |
| 450 | 911157302 | M | 21.100 | 20.52 | 138.10 | 1384.0 |
| 451 | 9111596 | B | 11.870 | 21.54 | 76.83 | 432.0 |
| 452 | 9111805 | M | 19.590 | 25.00 | 127.70 | 1191.0 |
| 453 | 9111843 | B | 12.000 | 28.23 | 76.77 | 442.5 |
| 454 | 911201 | B | 14.530 | 13.98 | 93.86 | 644.2 |
| 455 | 911202 | B | 12.620 | 17.15 | 80.62 | 492.9 |
| 456 | 9112085 | B | 13.380 | 30.72 | 86.34 | 557.2 |
| 457 | 9112366 | B | 11.630 | 29.29 | 74.87 | 415.1 |
| 458 | 9112367 | B | 13.210 | 25.25 | 84.10 | 537.9 |
| 459 | 9112594 | B | 13.000 | 25.13 | 82.61 | 520.2 |
| 460 | 9112712 | B | 9.755 | 28.20 | 61.68 | 290.9 |
| 461 | 911296201 | M | 17.080 | 27.15 | 111.20 | 930.9 |
| 462 | 911296202 | M | 27.420 | 26.27 | 186.90 | 2501.0 |
| 463 | 9113156 | B | 14.400 | 26.99 | 92.25 | 646.1 |
| 464 | 911320501 | B | 11.600 | 18.36 | 73.88 | 412.7 |
| 465 | 911320502 | B | 13.170 | 18.22 | 84.28 | 537.3 |
| 466 | 9113239 | B | 13.240 | 20.13 | 86.87 | 542.9 |
| 467 | 9113455 | B | 13.140 | 20.74 | 85.98 | 536.9 |
| 468 | 9113514 | B | 9.668 | 18.10 | 61.06 | 286.3 |
| 469 | 9113538 | M | 17.600 | 23.33 | 119.00 | 980.5 |
| 470 | 911366 | B | 11.620 | 18.18 | 76.38 | 408.8 |
| 471 | 9113778 | B | 9.667 | 18.49 | 61.49 | 289.1 |
| 472 | 9113816 | B | 12.040 | 28.14 | 76.85 | 449.9 |
| 473 | 911384 | B | 14.920 | 14.93 | 96.45 | 686.9 |
| 474 | 9113846 | B | 12.270 | 29.97 | 77.42 | 465.4 |
| 475 | 911391 | B | 10.880 | 15.62 | 70.41 | 358.9 |
| 476 | 911408 | B | 12.830 | 15.73 | 82.89 | 506.9 |
| 477 | 911654 | B | 14.200 | 20.53 | 92.41 | 618.4 |
| 478 | 911673 | B | 13.900 | 16.62 | 88.97 | 599.4 |
| 479 | 911685 | B | 11.490 | 14.59 | 73.99 | 404.9 |
| 480 | 911916 | M | 16.250 | 19.51 | 109.80 | 815.8 |
| 481 | 912193 | B | 12.160 | 18.03 | 78.29 | 455.3 |
| 482 | 91227 | B | 13.900 | 19.24 | 88.73 | 602.9 |
| 483 | 912519 | B | 13.470 | 14.06 | 87.32 | 546.3 |
| 484 | 912558 | B | 13.700 | 17.64 | 87.76 | 571.1 |
| 485 | 912600 | B | 15.730 | 11.28 | 102.80 | 747.2 |

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|-----|----------|---|--------|-------|--------|--------|
| 486 | 913063 | B | 12.450 | 16.41 | 82.85 | 476.7 |
| 487 | 913102 | B | 14.640 | 16.85 | 94.21 | 666.0 |
| 488 | 913505 | M | 19.440 | 18.82 | 128.10 | 1167.0 |
| 489 | 913512 | B | 11.680 | 16.17 | 75.49 | 420.5 |
| 490 | 913535 | M | 16.690 | 20.20 | 107.10 | 857.6 |
| 491 | 91376701 | B | 12.250 | 22.44 | 78.18 | 466.5 |
| 492 | 91376702 | B | 17.850 | 13.23 | 114.60 | 992.1 |
| 493 | 914062 | M | 18.010 | 20.56 | 118.40 | 1007.0 |
| 494 | 914101 | B | 12.460 | 12.83 | 78.83 | 477.3 |
| 495 | 914102 | B | 13.160 | 20.54 | 84.06 | 538.7 |
| 496 | 914333 | B | 14.870 | 20.21 | 96.12 | 680.9 |
| 497 | 914366 | B | 12.650 | 18.17 | 82.69 | 485.6 |
| 498 | 914580 | B | 12.470 | 17.31 | 80.45 | 480.1 |
| 499 | 914769 | M | 18.490 | 17.52 | 121.30 | 1068.0 |
| 500 | 91485 | M | 20.590 | 21.24 | 137.80 | 1320.0 |
| 501 | 914862 | B | 15.040 | 16.74 | 98.73 | 689.4 |
| 502 | 91504 | M | 13.820 | 24.49 | 92.33 | 595.9 |
| 503 | 91505 | B | 12.540 | 16.32 | 81.25 | 476.3 |
| 504 | 915143 | M | 23.090 | 19.83 | 152.10 | 1682.0 |
| 505 | 915186 | B | 9.268 | 12.87 | 61.49 | 248.7 |
| 506 | 915276 | B | 9.676 | 13.14 | 64.12 | 272.5 |
| 507 | 91544001 | B | 12.220 | 20.04 | 79.47 | 453.1 |
| 508 | 91544002 | B | 11.060 | 17.12 | 71.25 | 366.5 |
| 509 | 915452 | B | 16.300 | 15.70 | 104.70 | 819.8 |
| 510 | 915460 | M | 15.460 | 23.95 | 103.80 | 731.3 |
| 511 | 91550 | B | 11.740 | 14.69 | 76.31 | 426.0 |
| 512 | 915664 | B | 14.810 | 14.70 | 94.66 | 680.7 |
| 513 | 915691 | M | 13.400 | 20.52 | 88.64 | 556.7 |
| 514 | 915940 | B | 14.580 | 13.66 | 94.29 | 658.8 |
| 515 | 91594602 | M | 15.050 | 19.07 | 97.26 | 701.9 |
| 516 | 916221 | B | 11.340 | 18.61 | 72.76 | 391.2 |
| 517 | 916799 | M | 18.310 | 20.58 | 120.80 | 1052.0 |
| 518 | 916838 | M | 19.890 | 20.26 | 130.50 | 1214.0 |
| 519 | 917062 | B | 12.880 | 18.22 | 84.45 | 493.1 |
| 520 | 917080 | B | 12.750 | 16.70 | 82.51 | 493.8 |
| 521 | 917092 | B | 9.295 | 13.90 | 59.96 | 257.8 |
| 522 | 91762702 | M | 24.630 | 21.60 | 165.50 | 1841.0 |
| 523 | 91789 | B | 11.260 | 19.83 | 71.30 | 388.1 |
| 524 | 917896 | B | 13.710 | 18.68 | 88.73 | 571.0 |
| 525 | 917897 | B | 9.847 | 15.68 | 63.00 | 293.2 |
| 526 | 91805 | B | 8.571 | 13.10 | 54.53 | 221.3 |
| 527 | 91813701 | B | 13.460 | 18.75 | 87.44 | 551.1 |
| 528 | 91813702 | B | 12.340 | 12.27 | 78.94 | 468.5 |

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|-----|----------|---|--------|-------|--------|--------|
| 529 | 918192 | B | 13.940 | 13.17 | 90.31 | 594.2 |
| 530 | 918465 | B | 12.070 | 13.44 | 77.83 | 445.2 |
| 531 | 91858 | B | 11.750 | 17.56 | 75.89 | 422.9 |
| 532 | 91903901 | B | 11.670 | 20.02 | 75.21 | 416.2 |
| 533 | 91903902 | B | 13.680 | 16.33 | 87.76 | 575.5 |
| 534 | 91930402 | M | 20.470 | 20.67 | 134.70 | 1299.0 |
| 535 | 919537 | B | 10.960 | 17.62 | 70.79 | 365.6 |
| 536 | 919555 | M | 20.550 | 20.86 | 137.80 | 1308.0 |
| 537 | 91979701 | M | 14.270 | 22.55 | 93.77 | 629.8 |
| 538 | 919812 | B | 11.690 | 24.44 | 76.37 | 406.4 |
| 539 | 921092 | B | 7.729 | 25.49 | 47.98 | 178.8 |
| 540 | 921362 | B | 7.691 | 25.44 | 48.34 | 170.4 |
| 541 | 921385 | B | 11.540 | 14.44 | 74.65 | 402.9 |
| 542 | 921386 | B | 14.470 | 24.99 | 95.81 | 656.4 |
| 543 | 921644 | B | 14.740 | 25.42 | 94.70 | 668.6 |
| 544 | 922296 | B | 13.210 | 28.06 | 84.88 | 538.4 |
| 545 | 922297 | B | 13.870 | 20.70 | 89.77 | 584.8 |
| 546 | 922576 | B | 13.620 | 23.23 | 87.19 | 573.2 |
| 547 | 922577 | B | 10.320 | 16.35 | 65.31 | 324.9 |
| 548 | 922840 | B | 10.260 | 16.58 | 65.85 | 320.8 |
| 549 | 923169 | B | 9.683 | 19.34 | 61.05 | 285.7 |
| 550 | 923465 | B | 10.820 | 24.21 | 68.89 | 361.6 |
| 551 | 923748 | B | 10.860 | 21.48 | 68.51 | 360.5 |
| 552 | 923780 | B | 11.130 | 22.44 | 71.49 | 378.4 |
| 553 | 924084 | B | 12.770 | 29.43 | 81.35 | 507.9 |
| 554 | 924342 | B | 9.333 | 21.94 | 59.01 | 264.0 |
| 555 | 924632 | B | 12.880 | 28.92 | 82.50 | 514.3 |
| 556 | 924934 | B | 10.290 | 27.61 | 65.67 | 321.4 |
| 557 | 924964 | B | 10.160 | 19.59 | 64.73 | 311.7 |
| 558 | 925236 | B | 9.423 | 27.88 | 59.26 | 271.3 |
| 559 | 925277 | B | 14.590 | 22.68 | 96.39 | 657.1 |
| 560 | 925291 | B | 11.510 | 23.93 | 74.52 | 403.5 |
| 561 | 925292 | B | 14.050 | 27.15 | 91.38 | 600.4 |
| 562 | 925311 | B | 11.200 | 29.37 | 70.67 | 386.0 |
| 563 | 925622 | M | 15.220 | 30.62 | 103.40 | 716.9 |
| 564 | 926125 | M | 20.920 | 25.09 | 143.00 | 1347.0 |
| 565 | 926424 | M | 21.560 | 22.39 | 142.00 | 1479.0 |
| 566 | 926682 | M | 20.130 | 28.25 | 131.20 | 1261.0 |
| 567 | 926954 | M | 16.600 | 28.08 | 108.30 | 858.1 |
| 568 | 927241 | M | 20.600 | 29.33 | 140.10 | 1265.0 |
| 569 | 92751 | B | 7.760 | 24.54 | 47.92 | 181.0 |

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|---|-----------------|------------------|----------------|---------------------|
| | smoothness_mean | compactness_mean | concavity_mean | concave.points_mean |
| 1 | 0.11840 | 0.27760 | 0.3001000 | 0.147100 |

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|----|---------|---------|-----------|----------|
| 2 | 0.08474 | 0.07864 | 0.0869000 | 0.070170 |
| 3 | 0.10960 | 0.15990 | 0.1974000 | 0.127900 |
| 4 | 0.14250 | 0.28390 | 0.2414000 | 0.105200 |
| 5 | 0.10030 | 0.13280 | 0.1980000 | 0.104300 |
| 6 | 0.12780 | 0.17000 | 0.1578000 | 0.080890 |
| 7 | 0.09463 | 0.10900 | 0.1127000 | 0.074000 |
| 8 | 0.11890 | 0.16450 | 0.0936600 | 0.059850 |
| 9 | 0.12730 | 0.19320 | 0.1859000 | 0.093530 |
| 10 | 0.11860 | 0.23960 | 0.2273000 | 0.085430 |
| 11 | 0.08206 | 0.06669 | 0.0329900 | 0.033230 |
| 12 | 0.09710 | 0.12920 | 0.0995400 | 0.066060 |
| 13 | 0.09740 | 0.24580 | 0.2065000 | 0.111800 |
| 14 | 0.08401 | 0.10020 | 0.0993800 | 0.053640 |
| 15 | 0.11310 | 0.22930 | 0.2128000 | 0.080250 |
| 16 | 0.11390 | 0.15950 | 0.1639000 | 0.073640 |
| 17 | 0.09867 | 0.07200 | 0.0739500 | 0.052590 |
| 18 | 0.11700 | 0.20220 | 0.1722000 | 0.102800 |
| 19 | 0.09831 | 0.10270 | 0.1479000 | 0.094980 |
| 20 | 0.09779 | 0.08129 | 0.0666400 | 0.047810 |
| 21 | 0.10750 | 0.12700 | 0.0456800 | 0.031100 |
| 22 | 0.10240 | 0.06492 | 0.0295600 | 0.020760 |
| 23 | 0.10730 | 0.21350 | 0.2077000 | 0.097560 |
| 24 | 0.09428 | 0.10220 | 0.1097000 | 0.086320 |
| 25 | 0.11210 | 0.14570 | 0.1525000 | 0.091700 |
| 26 | 0.11860 | 0.22760 | 0.2229000 | 0.140100 |
| 27 | 0.10540 | 0.18680 | 0.1425000 | 0.087830 |
| 28 | 0.09440 | 0.10660 | 0.1490000 | 0.077310 |
| 29 | 0.10820 | 0.16970 | 0.1683000 | 0.087510 |
| 30 | 0.09847 | 0.11570 | 0.0987500 | 0.079530 |
| 31 | 0.10640 | 0.18870 | 0.2319000 | 0.124400 |
| 32 | 0.11090 | 0.15160 | 0.1218000 | 0.051820 |
| 33 | 0.11970 | 0.14960 | 0.2417000 | 0.120300 |
| 34 | 0.09401 | 0.17190 | 0.1657000 | 0.075930 |
| 35 | 0.10400 | 0.15590 | 0.1354000 | 0.077520 |
| 36 | 0.09610 | 0.13360 | 0.1348000 | 0.060180 |
| 37 | 0.09823 | 0.10980 | 0.1319000 | 0.055980 |
| 38 | 0.08983 | 0.03766 | 0.0256200 | 0.029230 |
| 39 | 0.09387 | 0.05131 | 0.0239800 | 0.028990 |
| 40 | 0.10160 | 0.12550 | 0.1063000 | 0.054390 |
| 41 | 0.08162 | 0.06031 | 0.0311000 | 0.020310 |
| 42 | 0.12270 | 0.12180 | 0.1044000 | 0.056690 |
| 43 | 0.09081 | 0.21900 | 0.2107000 | 0.099610 |
| 44 | 0.10410 | 0.14360 | 0.0984700 | 0.061580 |

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|----|---------|---------|-----------|----------|
| 45 | 0.09714 | 0.10470 | 0.0825900 | 0.052520 |
| 46 | 0.10990 | 0.16860 | 0.1974000 | 0.100900 |
| 47 | 0.08600 | 0.05943 | 0.0158800 | 0.005917 |
| 48 | 0.11580 | 0.12310 | 0.1226000 | 0.073400 |
| 49 | 0.10310 | 0.09092 | 0.0659200 | 0.027490 |
| 50 | 0.08752 | 0.07698 | 0.0475100 | 0.033840 |
| 51 | 0.08637 | 0.04966 | 0.0165700 | 0.011150 |
| 52 | 0.07685 | 0.06059 | 0.0185700 | 0.017230 |
| 53 | 0.08261 | 0.04751 | 0.0197200 | 0.013490 |
| 54 | 0.11480 | 0.14850 | 0.1772000 | 0.106000 |
| 55 | 0.09056 | 0.07081 | 0.0525300 | 0.033340 |
| 56 | 0.09524 | 0.05473 | 0.0303600 | 0.022780 |
| 57 | 0.10530 | 0.12670 | 0.1323000 | 0.089940 |
| 58 | 0.11370 | 0.13650 | 0.1293000 | 0.081230 |
| 59 | 0.08060 | 0.03789 | 0.0006920 | 0.004167 |
| 60 | 0.09752 | 0.05272 | 0.0206100 | 0.007799 |
| 61 | 0.11340 | 0.08061 | 0.0108400 | 0.012900 |
| 62 | 0.12430 | 0.08963 | 0.0300000 | 0.009259 |
| 63 | 0.10490 | 0.20080 | 0.2135000 | 0.086530 |
| 64 | 0.07721 | 0.08751 | 0.0598800 | 0.021800 |
| 65 | 0.11220 | 0.12620 | 0.1128000 | 0.068730 |
| 66 | 0.11720 | 0.14790 | 0.1267000 | 0.090290 |
| 67 | 0.10440 | 0.07773 | 0.0217200 | 0.015040 |
| 68 | 0.08139 | 0.04701 | 0.0370900 | 0.022300 |
| 69 | 0.10660 | 0.14130 | 0.3130000 | 0.043750 |
| 70 | 0.09831 | 0.05234 | 0.0365300 | 0.028640 |
| 71 | 0.09009 | 0.10290 | 0.1080000 | 0.079510 |
| 72 | 0.09783 | 0.15310 | 0.0860600 | 0.028720 |
| 73 | 0.10710 | 0.18300 | 0.1692000 | 0.079440 |
| 74 | 0.10070 | 0.12800 | 0.0778900 | 0.050690 |
| 75 | 0.09172 | 0.06829 | 0.0337200 | 0.022720 |
| 76 | 0.09168 | 0.08424 | 0.0976900 | 0.066380 |
| 77 | 0.12910 | 0.10470 | 0.0687700 | 0.065560 |
| 78 | 0.10650 | 0.21460 | 0.1684000 | 0.108000 |
| 79 | 0.12860 | 0.34540 | 0.3754000 | 0.160400 |
| 80 | 0.09934 | 0.09546 | 0.0388900 | 0.023150 |
| 81 | 0.11020 | 0.09362 | 0.0459100 | 0.022330 |
| 82 | 0.10780 | 0.15350 | 0.1169000 | 0.069870 |
| 83 | 0.10630 | 0.26650 | 0.3339000 | 0.184500 |
| 84 | 0.12150 | 0.17910 | 0.1937000 | 0.146900 |
| 85 | 0.09723 | 0.07165 | 0.0415100 | 0.018630 |
| 86 | 0.09874 | 0.10530 | 0.1335000 | 0.087950 |
| 87 | 0.09444 | 0.09947 | 0.1204000 | 0.049380 |

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| 88 | 0.09029 | 0.12060 | 0.1468000 | 0.082710 |
| 89 | 0.08772 | 0.09445 | 0.0601500 | 0.037450 |
| 90 | 0.11320 | 0.13390 | 0.0996600 | 0.070640 |
| 91 | 0.08974 | 0.08606 | 0.0310200 | 0.029570 |
| 92 | 0.09200 | 0.10360 | 0.1122000 | 0.074830 |
| 93 | 0.07355 | 0.05055 | 0.0326100 | 0.026480 |
| 94 | 0.10220 | 0.08165 | 0.0397400 | 0.027800 |
| 95 | 0.10390 | 0.15530 | 0.1700000 | 0.088150 |
| 96 | 0.09078 | 0.13130 | 0.1465000 | 0.086830 |
| 97 | 0.10450 | 0.07057 | 0.0249000 | 0.029410 |
| 98 | 0.10240 | 0.05301 | 0.0068290 | 0.007937 |
| 99 | 0.08983 | 0.07525 | 0.0419600 | 0.033500 |
| 100 | 0.09752 | 0.11410 | 0.0938800 | 0.058390 |
| 101 | 0.09488 | 0.08511 | 0.0862500 | 0.044890 |
| 102 | 0.11700 | 0.07568 | 0.0000000 | 0.000000 |
| 103 | 0.08013 | 0.04038 | 0.0238300 | 0.017700 |
| 104 | 0.10050 | 0.09697 | 0.0615400 | 0.030290 |
| 105 | 0.09989 | 0.08578 | 0.0299500 | 0.012010 |
| 106 | 0.13980 | 0.17650 | 0.2071000 | 0.096010 |
| 107 | 0.11420 | 0.10170 | 0.0707000 | 0.034850 |
| 108 | 0.08477 | 0.06815 | 0.0264300 | 0.019210 |
| 109 | 0.13260 | 0.27680 | 0.4264000 | 0.182300 |
| 110 | 0.08759 | 0.06575 | 0.0513300 | 0.018990 |
| 111 | 0.10370 | 0.08404 | 0.0433400 | 0.017780 |
| 112 | 0.09933 | 0.12090 | 0.1065000 | 0.060210 |
| 113 | 0.07837 | 0.22330 | 0.3003000 | 0.077980 |
| 114 | 0.11220 | 0.13030 | 0.0647600 | 0.030680 |
| 115 | 0.11500 | 0.08201 | 0.0413200 | 0.019240 |
| 116 | 0.09768 | 0.07849 | 0.0332800 | 0.020080 |
| 117 | 0.09462 | 0.12430 | 0.0926300 | 0.023080 |
| 118 | 0.11620 | 0.16490 | 0.1690000 | 0.089230 |
| 119 | 0.11550 | 0.17520 | 0.2133000 | 0.094790 |
| 120 | 0.08402 | 0.06722 | 0.0729300 | 0.055960 |
| 121 | 0.09373 | 0.06685 | 0.0351200 | 0.026230 |
| 122 | 0.10540 | 0.11000 | 0.1457000 | 0.086650 |
| 123 | 0.14470 | 0.28670 | 0.4268000 | 0.201200 |
| 124 | 0.11010 | 0.10990 | 0.0884200 | 0.057780 |
| 125 | 0.07115 | 0.07325 | 0.0809200 | 0.028000 |
| 126 | 0.08785 | 0.06136 | 0.0142000 | 0.011410 |
| 127 | 0.09258 | 0.07862 | 0.0528500 | 0.030850 |
| 128 | 0.08217 | 0.08028 | 0.0927100 | 0.056270 |
| 129 | 0.11500 | 0.18070 | 0.1138000 | 0.085340 |
| 130 | 0.10150 | 0.15890 | 0.2545000 | 0.114900 |

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| 131 | 0.10660 | 0.09509 | 0.0285500 | 0.028820 |
| 132 | 0.10920 | 0.12230 | 0.1466000 | 0.080870 |
| 133 | 0.10080 | 0.12840 | 0.1043000 | 0.056130 |
| 134 | 0.09462 | 0.09462 | 0.0713500 | 0.059330 |
| 135 | 0.09430 | 0.09709 | 0.1153000 | 0.068470 |
| 136 | 0.09055 | 0.05761 | 0.0471100 | 0.027040 |
| 137 | 0.10510 | 0.06095 | 0.0359200 | 0.026000 |
| 138 | 0.09639 | 0.06889 | 0.0350300 | 0.028750 |
| 139 | 0.11670 | 0.13050 | 0.1539000 | 0.086240 |
| 140 | 0.11640 | 0.11360 | 0.0463500 | 0.047960 |
| 141 | 0.09250 | 0.04102 | 0.0000000 | 0.000000 |
| 142 | 0.09721 | 0.11370 | 0.0944700 | 0.059430 |
| 143 | 0.10920 | 0.09486 | 0.0203100 | 0.018610 |
| 144 | 0.08677 | 0.09509 | 0.0489400 | 0.030880 |
| 145 | 0.07793 | 0.05139 | 0.0225100 | 0.007875 |
| 146 | 0.11520 | 0.12960 | 0.0371000 | 0.030030 |
| 147 | 0.10910 | 0.17000 | 0.1659000 | 0.074150 |
| 148 | 0.08138 | 0.11670 | 0.0905000 | 0.035620 |
| 149 | 0.09970 | 0.10210 | 0.0848700 | 0.055320 |
| 150 | 0.07944 | 0.06376 | 0.0288100 | 0.013290 |
| 151 | 0.11350 | 0.07589 | 0.0313600 | 0.026450 |
| 152 | 0.09405 | 0.13050 | 0.1321000 | 0.021680 |
| 153 | 0.10720 | 0.15990 | 0.4108000 | 0.078570 |
| 154 | 0.09754 | 0.05113 | 0.0198200 | 0.017860 |
| 155 | 0.09384 | 0.08498 | 0.0929300 | 0.034830 |
| 156 | 0.08654 | 0.06679 | 0.0388500 | 0.023310 |
| 157 | 0.11150 | 0.16650 | 0.1855000 | 0.105400 |
| 158 | 0.07445 | 0.07223 | 0.0515000 | 0.027710 |
| 159 | 0.09311 | 0.05241 | 0.0197200 | 0.019630 |
| 160 | 0.07515 | 0.03718 | 0.0030900 | 0.006588 |
| 161 | 0.10890 | 0.11410 | 0.0684300 | 0.037380 |
| 162 | 0.08694 | 0.11850 | 0.1193000 | 0.096670 |
| 163 | 0.11200 | 0.16660 | 0.2508000 | 0.128600 |
| 164 | 0.10120 | 0.10150 | 0.0537000 | 0.028220 |
| 165 | 0.08439 | 0.11450 | 0.1324000 | 0.097020 |
| 166 | 0.08421 | 0.05352 | 0.0194700 | 0.019390 |
| 167 | 0.09594 | 0.05736 | 0.0253100 | 0.016980 |
| 168 | 0.08865 | 0.09182 | 0.0842200 | 0.065760 |
| 169 | 0.10490 | 0.16030 | 0.2159000 | 0.104300 |
| 170 | 0.09855 | 0.07885 | 0.0260200 | 0.037810 |
| 171 | 0.10280 | 0.06981 | 0.0398700 | 0.037000 |
| 172 | 0.09048 | 0.06288 | 0.0585800 | 0.034380 |
| 173 | 0.12570 | 0.15550 | 0.2032000 | 0.109700 |

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| 174 | 0.10060 | 0.05743 | 0.0236300 | 0.025830 |
| 175 | 0.08792 | 0.04302 | 0.0000000 | 0.000000 |
| 176 | 0.09138 | 0.04276 | 0.0000000 | 0.000000 |
| 177 | 0.09699 | 0.12940 | 0.1307000 | 0.037160 |
| 178 | 0.09831 | 0.15560 | 0.1793000 | 0.088660 |
| 179 | 0.06251 | 0.01938 | 0.0015950 | 0.001852 |
| 180 | 0.08739 | 0.03774 | 0.0091930 | 0.013300 |
| 181 | 0.10940 | 0.19140 | 0.2871000 | 0.187800 |
| 182 | 0.11410 | 0.28320 | 0.2487000 | 0.149600 |
| 183 | 0.09597 | 0.08799 | 0.0659300 | 0.051890 |
| 184 | 0.09059 | 0.08155 | 0.0618100 | 0.023610 |
| 185 | 0.09057 | 0.10520 | 0.0537500 | 0.032630 |
| 186 | 0.09267 | 0.04695 | 0.0015970 | 0.002404 |
| 187 | 0.08588 | 0.08468 | 0.0816900 | 0.058140 |
| 188 | 0.09774 | 0.06141 | 0.0380900 | 0.032390 |
| 189 | 0.10070 | 0.05562 | 0.0235300 | 0.015530 |
| 190 | 0.08080 | 0.07253 | 0.0384400 | 0.016540 |
| 191 | 0.10750 | 0.24130 | 0.1981000 | 0.066180 |
| 192 | 0.08749 | 0.06601 | 0.0311200 | 0.028640 |
| 193 | 0.06950 | 0.02344 | 0.0000000 | 0.000000 |
| 194 | 0.10340 | 0.13530 | 0.1085000 | 0.045620 |
| 195 | 0.10440 | 0.19800 | 0.1697000 | 0.088780 |
| 196 | 0.07941 | 0.05366 | 0.0387300 | 0.023770 |
| 197 | 0.12000 | 0.12670 | 0.1385000 | 0.065260 |
| 198 | 0.07371 | 0.08642 | 0.1103000 | 0.057780 |
| 199 | 0.08523 | 0.14280 | 0.1114000 | 0.067720 |
| 200 | 0.09872 | 0.12060 | 0.1180000 | 0.059800 |
| 201 | 0.09586 | 0.08087 | 0.0418700 | 0.041070 |
| 202 | 0.08968 | 0.11980 | 0.1036000 | 0.074880 |
| 203 | 0.11410 | 0.20840 | 0.3523000 | 0.162000 |
| 204 | 0.13230 | 0.17680 | 0.1558000 | 0.091760 |
| 205 | 0.09965 | 0.10580 | 0.0800500 | 0.038210 |
| 206 | 0.08876 | 0.09588 | 0.0755000 | 0.040790 |
| 207 | 0.10890 | 0.07232 | 0.0175600 | 0.019520 |
| 208 | 0.08772 | 0.07304 | 0.0695000 | 0.053900 |
| 209 | 0.10020 | 0.14830 | 0.0870500 | 0.051020 |
| 210 | 0.08182 | 0.06230 | 0.0589200 | 0.031570 |
| 211 | 0.09090 | 0.13480 | 0.1640000 | 0.095610 |
| 212 | 0.08871 | 0.06900 | 0.0266900 | 0.013930 |
| 213 | 0.11420 | 0.15160 | 0.3201000 | 0.159500 |
| 214 | 0.10060 | 0.11460 | 0.1682000 | 0.065970 |
| 215 | 0.09463 | 0.13060 | 0.1115000 | 0.064620 |
| 216 | 0.10260 | 0.15170 | 0.0990100 | 0.056020 |

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| 217 | 0.09363 | 0.11540 | 0.0663600 | 0.031420 |
| 218 | 0.08054 | 0.05907 | 0.0577400 | 0.010710 |
| 219 | 0.09383 | 0.13060 | 0.1272000 | 0.086910 |
| 220 | 0.08420 | 0.11300 | 0.1145000 | 0.066370 |
| 221 | 0.09646 | 0.08711 | 0.0388800 | 0.025630 |
| 222 | 0.10510 | 0.11920 | 0.0786000 | 0.044510 |
| 223 | 0.10610 | 0.08502 | 0.0176800 | 0.019150 |
| 224 | 0.10250 | 0.12040 | 0.1147000 | 0.064620 |
| 225 | 0.08445 | 0.04994 | 0.0355400 | 0.024560 |
| 226 | 0.09906 | 0.07624 | 0.0572400 | 0.046030 |
| 227 | 0.10530 | 0.07722 | 0.0066430 | 0.012160 |
| 228 | 0.08371 | 0.10960 | 0.0650500 | 0.037800 |
| 229 | 0.07903 | 0.07529 | 0.0543800 | 0.020360 |
| 230 | 0.10880 | 0.17990 | 0.1695000 | 0.068610 |
| 231 | 0.11410 | 0.15720 | 0.1910000 | 0.109000 |
| 232 | 0.06883 | 0.03813 | 0.0163300 | 0.003125 |
| 233 | 0.07780 | 0.03574 | 0.0049670 | 0.006434 |
| 234 | 0.09159 | 0.10740 | 0.1554000 | 0.083400 |
| 235 | 0.08464 | 0.04087 | 0.0165200 | 0.016670 |
| 236 | 0.09070 | 0.06945 | 0.0146200 | 0.018960 |
| 237 | 0.09509 | 0.16820 | 0.1950000 | 0.123700 |
| 238 | 0.08355 | 0.08348 | 0.0904200 | 0.060220 |
| 239 | 0.08223 | 0.10390 | 0.1103000 | 0.044080 |
| 240 | 0.09812 | 0.12980 | 0.1417000 | 0.088110 |
| 241 | 0.09423 | 0.06630 | 0.0470500 | 0.037310 |
| 242 | 0.07926 | 0.03393 | 0.0105300 | 0.011080 |
| 243 | 0.09592 | 0.13250 | 0.1548000 | 0.028540 |
| 244 | 0.08043 | 0.06807 | 0.0469700 | 0.023440 |
| 245 | 0.10270 | 0.15580 | 0.2049000 | 0.088860 |
| 246 | 0.10700 | 0.05971 | 0.0483100 | 0.030700 |
| 247 | 0.07215 | 0.04524 | 0.0433600 | 0.011050 |
| 248 | 0.08760 | 0.13460 | 0.1374000 | 0.039800 |
| 249 | 0.09657 | 0.07234 | 0.0237900 | 0.016150 |
| 250 | 0.10130 | 0.07808 | 0.0432800 | 0.029290 |
| 251 | 0.10070 | 0.16060 | 0.2712000 | 0.131000 |
| 252 | 0.09345 | 0.05991 | 0.0263800 | 0.020690 |
| 253 | 0.10620 | 0.18490 | 0.2417000 | 0.097400 |
| 254 | 0.10080 | 0.10410 | 0.1266000 | 0.083530 |
| 255 | 0.10350 | 0.11880 | 0.1379000 | 0.085910 |
| 256 | 0.10960 | 0.12790 | 0.0978900 | 0.052460 |
| 257 | 0.09260 | 0.20630 | 0.1784000 | 0.114400 |
| 258 | 0.13350 | 0.22840 | 0.2448000 | 0.124200 |
| 259 | 0.11090 | 0.31140 | 0.3176000 | 0.137700 |

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| 260 | 0.10630 | 0.16390 | 0.1751000 | 0.083990 |
| 261 | 0.10000 | 0.10880 | 0.1519000 | 0.093330 |
| 262 | 0.08662 | 0.06290 | 0.0289100 | 0.028370 |
| 263 | 0.08999 | 0.12730 | 0.0969700 | 0.075070 |
| 264 | 0.07840 | 0.05616 | 0.0420900 | 0.028470 |
| 265 | 0.09726 | 0.08995 | 0.0906100 | 0.065270 |
| 266 | 0.09469 | 0.11430 | 0.1367000 | 0.086460 |
| 267 | 0.09688 | 0.11470 | 0.0638700 | 0.026420 |
| 268 | 0.07956 | 0.08259 | 0.0407200 | 0.021420 |
| 269 | 0.09425 | 0.06219 | 0.0390000 | 0.016150 |
| 270 | 0.10820 | 0.12890 | 0.0844800 | 0.028670 |
| 271 | 0.06429 | 0.02675 | 0.0072500 | 0.006250 |
| 272 | 0.09834 | 0.07608 | 0.0326500 | 0.027550 |
| 273 | 0.09401 | 0.19610 | 0.2195000 | 0.108800 |
| 274 | 0.09037 | 0.04689 | 0.0110300 | 0.014070 |
| 275 | 0.08855 | 0.07027 | 0.0569900 | 0.047440 |
| 276 | 0.12250 | 0.07210 | 0.0592900 | 0.074040 |
| 277 | 0.09379 | 0.03872 | 0.0014870 | 0.003333 |
| 278 | 0.08923 | 0.05884 | 0.0802000 | 0.058430 |
| 279 | 0.07948 | 0.04052 | 0.0199700 | 0.012380 |
| 280 | 0.09516 | 0.07688 | 0.0447900 | 0.037110 |
| 281 | 0.10200 | 0.14530 | 0.1921000 | 0.096640 |
| 282 | 0.07813 | 0.04340 | 0.0224500 | 0.027630 |
| 283 | 0.10370 | 0.14420 | 0.1626000 | 0.094640 |
| 284 | 0.10660 | 0.18020 | 0.1948000 | 0.090520 |
| 285 | 0.07818 | 0.09580 | 0.1115000 | 0.033900 |
| 286 | 0.08393 | 0.04216 | 0.0018600 | 0.002924 |
| 287 | 0.08605 | 0.10110 | 0.0657400 | 0.037910 |
| 288 | 0.06955 | 0.03729 | 0.0226000 | 0.011710 |
| 289 | 0.08020 | 0.11810 | 0.0927400 | 0.055880 |
| 290 | 0.08713 | 0.05008 | 0.0239900 | 0.021730 |
| 291 | 0.08757 | 0.16760 | 0.1362000 | 0.066020 |
| 292 | 0.08992 | 0.09823 | 0.0594000 | 0.048190 |
| 293 | 0.10050 | 0.07943 | 0.0615500 | 0.033700 |
| 294 | 0.08372 | 0.05642 | 0.0268800 | 0.022800 |
| 295 | 0.09667 | 0.08393 | 0.0128800 | 0.019240 |
| 296 | 0.09198 | 0.06221 | 0.0106300 | 0.019170 |
| 297 | 0.08518 | 0.04721 | 0.0123600 | 0.013690 |
| 298 | 0.09968 | 0.05914 | 0.0268500 | 0.035150 |
| 299 | 0.06576 | 0.05220 | 0.0247500 | 0.013740 |
| 300 | 0.10150 | 0.06797 | 0.0249500 | 0.018750 |
| 301 | 0.11500 | 0.16420 | 0.2197000 | 0.106200 |
| 302 | 0.08451 | 0.10140 | 0.0683000 | 0.030990 |

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|-----|---------|---------|-----------|----------|
| 303 | 0.10800 | 0.18380 | 0.2283000 | 0.128000 |
| 304 | 0.10680 | 0.06678 | 0.0229700 | 0.017800 |
| 305 | 0.08853 | 0.07694 | 0.0334400 | 0.015020 |
| 306 | 0.07474 | 0.05688 | 0.0197400 | 0.013130 |
| 307 | 0.08511 | 0.05251 | 0.0014610 | 0.003261 |
| 308 | 0.07005 | 0.03116 | 0.0036810 | 0.003472 |
| 309 | 0.07376 | 0.03614 | 0.0027580 | 0.004419 |
| 310 | 0.08352 | 0.03735 | 0.0045590 | 0.008829 |
| 311 | 0.08814 | 0.05253 | 0.0158300 | 0.011480 |
| 312 | 0.07618 | 0.03515 | 0.0144700 | 0.018770 |
| 313 | 0.08794 | 0.07948 | 0.0405200 | 0.025480 |
| 314 | 0.08597 | 0.05969 | 0.0136700 | 0.008907 |
| 315 | 0.10740 | 0.05847 | 0.0000000 | 0.000000 |
| 316 | 0.08511 | 0.03834 | 0.0044730 | 0.006423 |
| 317 | 0.07734 | 0.03212 | 0.0112300 | 0.005051 |
| 318 | 0.09746 | 0.11170 | 0.1130000 | 0.079500 |
| 319 | 0.09968 | 0.19720 | 0.1975000 | 0.049080 |
| 320 | 0.07557 | 0.03454 | 0.0134200 | 0.016990 |
| 321 | 0.10610 | 0.11110 | 0.0672600 | 0.039650 |
| 322 | 0.08020 | 0.08564 | 0.1155000 | 0.077260 |
| 323 | 0.11340 | 0.08834 | 0.0380000 | 0.034000 |
| 324 | 0.11700 | 0.18750 | 0.2565000 | 0.150400 |
| 325 | 0.08673 | 0.06545 | 0.0199400 | 0.016920 |
| 326 | 0.10280 | 0.07664 | 0.0319300 | 0.021070 |
| 327 | 0.09309 | 0.05306 | 0.0176500 | 0.027330 |
| 328 | 0.07683 | 0.03892 | 0.0015460 | 0.005592 |
| 329 | 0.11690 | 0.13190 | 0.1478000 | 0.084880 |
| 330 | 0.11650 | 0.12830 | 0.1799000 | 0.079810 |
| 331 | 0.09491 | 0.13710 | 0.1204000 | 0.070410 |
| 332 | 0.09579 | 0.11250 | 0.0710700 | 0.029500 |
| 333 | 0.10540 | 0.06779 | 0.0050060 | 0.007583 |
| 334 | 0.08306 | 0.04458 | 0.0009737 | 0.002941 |
| 335 | 0.08313 | 0.04202 | 0.0077560 | 0.008535 |
| 336 | 0.11190 | 0.10560 | 0.1508000 | 0.099340 |
| 337 | 0.09462 | 0.09965 | 0.0373800 | 0.020980 |
| 338 | 0.09116 | 0.14020 | 0.1060000 | 0.060900 |
| 339 | 0.10070 | 0.07326 | 0.0251100 | 0.017750 |
| 340 | 0.10690 | 0.12830 | 0.2308000 | 0.141000 |
| 341 | 0.09751 | 0.11390 | 0.0800700 | 0.042230 |
| 342 | 0.08481 | 0.09228 | 0.0842200 | 0.022920 |
| 343 | 0.10330 | 0.09097 | 0.0539700 | 0.033410 |
| 344 | 0.09797 | 0.13390 | 0.1863000 | 0.110300 |
| 345 | 0.11500 | 0.07281 | 0.0400600 | 0.032500 |

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|-----|---------|---------|-----------|----------|
| 346 | 0.09882 | 0.09159 | 0.0358100 | 0.020370 |
| 347 | 0.08386 | 0.05794 | 0.0075100 | 0.008488 |
| 348 | 0.08875 | 0.07780 | 0.0460800 | 0.035280 |
| 349 | 0.09076 | 0.05886 | 0.0258700 | 0.023220 |
| 350 | 0.11580 | 0.12060 | 0.0117100 | 0.017870 |
| 351 | 0.07561 | 0.03630 | 0.0083060 | 0.011620 |
| 352 | 0.12430 | 0.23640 | 0.2914000 | 0.124200 |
| 353 | 0.11490 | 0.23630 | 0.3368000 | 0.191300 |
| 354 | 0.10240 | 0.09769 | 0.1235000 | 0.065530 |
| 355 | 0.07274 | 0.06064 | 0.0450500 | 0.014710 |
| 356 | 0.08760 | 0.10380 | 0.1030000 | 0.043910 |
| 357 | 0.10820 | 0.13040 | 0.0960300 | 0.056030 |
| 358 | 0.08743 | 0.05492 | 0.0150200 | 0.020880 |
| 359 | 0.08293 | 0.07698 | 0.0472100 | 0.023810 |
| 360 | 0.10090 | 0.05956 | 0.0271000 | 0.014060 |
| 361 | 0.07436 | 0.02650 | 0.0011940 | 0.005449 |
| 362 | 0.08582 | 0.06373 | 0.0334400 | 0.024240 |
| 363 | 0.09676 | 0.07952 | 0.0268800 | 0.017810 |
| 364 | 0.09686 | 0.08468 | 0.0586200 | 0.048350 |
| 365 | 0.07937 | 0.05696 | 0.0218100 | 0.014730 |
| 366 | 0.09150 | 0.11310 | 0.0979900 | 0.077850 |
| 367 | 0.09905 | 0.16690 | 0.1641000 | 0.126500 |
| 368 | 0.09231 | 0.07175 | 0.0439200 | 0.020270 |
| 369 | 0.09384 | 0.08562 | 0.1168000 | 0.084650 |
| 370 | 0.10630 | 0.19540 | 0.2448000 | 0.150100 |
| 371 | 0.09742 | 0.14970 | 0.1811000 | 0.087730 |
| 372 | 0.07963 | 0.06934 | 0.0339300 | 0.026570 |
| 373 | 0.10010 | 0.15150 | 0.1932000 | 0.125500 |
| 374 | 0.09446 | 0.10760 | 0.1527000 | 0.089410 |
| 375 | 0.08302 | 0.06374 | 0.0255600 | 0.020310 |
| 376 | 0.09880 | 0.14380 | 0.0665100 | 0.053970 |
| 377 | 0.09073 | 0.16600 | 0.2280000 | 0.059410 |
| 378 | 0.07517 | 0.04726 | 0.0127100 | 0.011170 |
| 379 | 0.08268 | 0.07548 | 0.0424900 | 0.024710 |
| 380 | 0.12160 | 0.21540 | 0.1689000 | 0.063670 |
| 381 | 0.12370 | 0.11110 | 0.0790000 | 0.055500 |
| 382 | 0.07987 | 0.07079 | 0.0354600 | 0.020740 |
| 383 | 0.06935 | 0.10730 | 0.0794300 | 0.029780 |
| 384 | 0.10420 | 0.12970 | 0.0589200 | 0.028800 |
| 385 | 0.08363 | 0.08575 | 0.0507700 | 0.028640 |
| 386 | 0.08682 | 0.06636 | 0.0839000 | 0.052710 |
| 387 | 0.08108 | 0.07823 | 0.0683900 | 0.025340 |
| 388 | 0.07026 | 0.04831 | 0.0204500 | 0.008507 |

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|-----|---------|---------|-----------|----------|
| 389 | 0.08365 | 0.11140 | 0.1007000 | 0.027570 |
| 390 | 0.10100 | 0.13180 | 0.1856000 | 0.102100 |
| 391 | 0.09996 | 0.07542 | 0.0192300 | 0.019680 |
| 392 | 0.10390 | 0.07428 | 0.0000000 | 0.000000 |
| 393 | 0.11600 | 0.15620 | 0.1891000 | 0.091130 |
| 394 | 0.11670 | 0.20870 | 0.2810000 | 0.156200 |
| 395 | 0.10290 | 0.09758 | 0.0478300 | 0.033260 |
| 396 | 0.08045 | 0.05361 | 0.0268100 | 0.032510 |
| 397 | 0.10590 | 0.11470 | 0.0858000 | 0.053810 |
| 398 | 0.08044 | 0.08895 | 0.0739000 | 0.040830 |
| 399 | 0.07741 | 0.04768 | 0.0271200 | 0.007246 |
| 400 | 0.09087 | 0.06232 | 0.0285300 | 0.016380 |
| 401 | 0.12300 | 0.25760 | 0.3189000 | 0.119800 |
| 402 | 0.08872 | 0.05242 | 0.0260600 | 0.017960 |
| 403 | 0.07351 | 0.07899 | 0.0405700 | 0.018830 |
| 404 | 0.09879 | 0.08836 | 0.0329600 | 0.023900 |
| 405 | 0.08682 | 0.04571 | 0.0210900 | 0.020540 |
| 406 | 0.10040 | 0.07460 | 0.0494400 | 0.029320 |
| 407 | 0.09495 | 0.08501 | 0.0550000 | 0.045280 |
| 408 | 0.07551 | 0.08316 | 0.0612600 | 0.018670 |
| 409 | 0.10360 | 0.13040 | 0.1201000 | 0.088240 |
| 410 | 0.08685 | 0.06526 | 0.0321100 | 0.026530 |
| 411 | 0.08858 | 0.05313 | 0.0278300 | 0.021000 |
| 412 | 0.10770 | 0.07804 | 0.0304600 | 0.024800 |
| 413 | 0.07969 | 0.06053 | 0.0373500 | 0.005128 |
| 414 | 0.08515 | 0.10250 | 0.0685900 | 0.038760 |
| 415 | 0.08320 | 0.04605 | 0.0468600 | 0.027390 |
| 416 | 0.09773 | 0.08120 | 0.0255500 | 0.021790 |
| 417 | 0.10440 | 0.06159 | 0.0204700 | 0.012570 |
| 418 | 0.11200 | 0.15710 | 0.1522000 | 0.084810 |
| 419 | 0.08785 | 0.05794 | 0.0236000 | 0.024020 |
| 420 | 0.10180 | 0.05978 | 0.0089550 | 0.010760 |
| 421 | 0.08546 | 0.07722 | 0.0548500 | 0.014280 |
| 422 | 0.10310 | 0.18360 | 0.1450000 | 0.063000 |
| 423 | 0.10880 | 0.11680 | 0.0709700 | 0.044970 |
| 424 | 0.09057 | 0.11470 | 0.0965700 | 0.048120 |
| 425 | 0.10750 | 0.08333 | 0.0089340 | 0.019670 |
| 426 | 0.08117 | 0.03912 | 0.0024700 | 0.005159 |
| 427 | 0.09816 | 0.10130 | 0.0633500 | 0.022180 |
| 428 | 0.08801 | 0.05743 | 0.0361400 | 0.014040 |
| 429 | 0.08151 | 0.03834 | 0.0136900 | 0.013700 |
| 430 | 0.07896 | 0.04522 | 0.0140200 | 0.018350 |
| 431 | 0.09947 | 0.22250 | 0.2733000 | 0.097110 |

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|-----|---------|---------|-----------|----------|
| 432 | 0.10540 | 0.13160 | 0.0774100 | 0.027990 |
| 433 | 0.11330 | 0.14890 | 0.2133000 | 0.125900 |
| 434 | 0.10180 | 0.13890 | 0.1594000 | 0.087440 |
| 435 | 0.08924 | 0.07074 | 0.0334600 | 0.028770 |
| 436 | 0.10600 | 0.11330 | 0.1126000 | 0.064630 |
| 437 | 0.09136 | 0.07883 | 0.0179700 | 0.020900 |
| 438 | 0.08458 | 0.05895 | 0.0353400 | 0.029440 |
| 439 | 0.08684 | 0.06330 | 0.0134200 | 0.022930 |
| 440 | 0.07966 | 0.05581 | 0.0208700 | 0.026520 |
| 441 | 0.08915 | 0.11130 | 0.0945700 | 0.036130 |
| 442 | 0.08331 | 0.11090 | 0.1204000 | 0.057360 |
| 443 | 0.08817 | 0.06718 | 0.0105500 | 0.009937 |
| 444 | 0.08142 | 0.04462 | 0.0199300 | 0.011110 |
| 445 | 0.08947 | 0.12320 | 0.1090000 | 0.062540 |
| 446 | 0.10300 | 0.09218 | 0.0544100 | 0.042740 |
| 447 | 0.09997 | 0.13140 | 0.1698000 | 0.082930 |
| 448 | 0.09179 | 0.08890 | 0.0406900 | 0.022600 |
| 449 | 0.08388 | 0.07800 | 0.0881700 | 0.029250 |
| 450 | 0.09684 | 0.11750 | 0.1572000 | 0.115500 |
| 451 | 0.06613 | 0.10640 | 0.0877700 | 0.023860 |
| 452 | 0.10320 | 0.09871 | 0.1655000 | 0.090630 |
| 453 | 0.08437 | 0.06450 | 0.0405500 | 0.019450 |
| 454 | 0.10990 | 0.09242 | 0.0689500 | 0.064950 |
| 455 | 0.08583 | 0.05430 | 0.0296600 | 0.022720 |
| 456 | 0.09245 | 0.07426 | 0.0281900 | 0.032640 |
| 457 | 0.09357 | 0.08574 | 0.0716000 | 0.020170 |
| 458 | 0.08791 | 0.05205 | 0.0277200 | 0.020680 |
| 459 | 0.08369 | 0.05073 | 0.0120600 | 0.017620 |
| 460 | 0.07984 | 0.04626 | 0.0154100 | 0.010430 |
| 461 | 0.09898 | 0.11100 | 0.1007000 | 0.064310 |
| 462 | 0.10840 | 0.19880 | 0.3635000 | 0.168900 |
| 463 | 0.06995 | 0.05223 | 0.0347600 | 0.017370 |
| 464 | 0.08508 | 0.05855 | 0.0336700 | 0.017770 |
| 465 | 0.07466 | 0.05994 | 0.0485900 | 0.028700 |
| 466 | 0.08284 | 0.12230 | 0.1010000 | 0.028330 |
| 467 | 0.08675 | 0.10890 | 0.1085000 | 0.035100 |
| 468 | 0.08311 | 0.05428 | 0.0147900 | 0.005769 |
| 469 | 0.09289 | 0.20040 | 0.2136000 | 0.100200 |
| 470 | 0.11750 | 0.14830 | 0.1020000 | 0.055640 |
| 471 | 0.08946 | 0.06258 | 0.0294800 | 0.015140 |
| 472 | 0.08752 | 0.06000 | 0.0236700 | 0.023770 |
| 473 | 0.08098 | 0.08549 | 0.0553900 | 0.032210 |
| 474 | 0.07699 | 0.03398 | 0.0000000 | 0.000000 |

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|-----|---------|---------|-----------|----------|
| 475 | 0.10070 | 0.10690 | 0.0511500 | 0.015710 |
| 476 | 0.09040 | 0.08269 | 0.0583500 | 0.030780 |
| 477 | 0.08931 | 0.11080 | 0.0506300 | 0.030580 |
| 478 | 0.06828 | 0.05319 | 0.0222400 | 0.013390 |
| 479 | 0.10460 | 0.08228 | 0.0530800 | 0.019690 |
| 480 | 0.10260 | 0.18930 | 0.2236000 | 0.091940 |
| 481 | 0.09087 | 0.07838 | 0.0291600 | 0.015270 |
| 482 | 0.07991 | 0.05326 | 0.0299500 | 0.020700 |
| 483 | 0.10710 | 0.11550 | 0.0578600 | 0.052660 |
| 484 | 0.09950 | 0.07957 | 0.0454800 | 0.031600 |
| 485 | 0.10430 | 0.12990 | 0.1191000 | 0.062110 |
| 486 | 0.09514 | 0.15110 | 0.1544000 | 0.048460 |
| 487 | 0.08641 | 0.06698 | 0.0519200 | 0.027910 |
| 488 | 0.10890 | 0.14480 | 0.2256000 | 0.119400 |
| 489 | 0.11280 | 0.09263 | 0.0427900 | 0.031320 |
| 490 | 0.07497 | 0.07112 | 0.0364900 | 0.023070 |
| 491 | 0.08192 | 0.05200 | 0.0171400 | 0.012610 |
| 492 | 0.07838 | 0.06217 | 0.0444500 | 0.041780 |
| 493 | 0.10010 | 0.12890 | 0.1170000 | 0.077620 |
| 494 | 0.07372 | 0.04043 | 0.0071730 | 0.011490 |
| 495 | 0.07335 | 0.05275 | 0.0180000 | 0.012560 |
| 496 | 0.09587 | 0.08345 | 0.0682400 | 0.049510 |
| 497 | 0.10760 | 0.13340 | 0.0801700 | 0.050740 |
| 498 | 0.08928 | 0.07630 | 0.0360900 | 0.023690 |
| 499 | 0.10120 | 0.13170 | 0.1491000 | 0.091830 |
| 500 | 0.10850 | 0.16440 | 0.2188000 | 0.112100 |
| 501 | 0.09883 | 0.13640 | 0.0772100 | 0.061420 |
| 502 | 0.11620 | 0.16810 | 0.1357000 | 0.067590 |
| 503 | 0.11580 | 0.10850 | 0.0592800 | 0.032790 |
| 504 | 0.09342 | 0.12750 | 0.1676000 | 0.100300 |
| 505 | 0.16340 | 0.22390 | 0.0973000 | 0.052520 |
| 506 | 0.12550 | 0.22040 | 0.1188000 | 0.070380 |
| 507 | 0.10960 | 0.11520 | 0.0817500 | 0.021660 |
| 508 | 0.11940 | 0.10710 | 0.0406300 | 0.042680 |
| 509 | 0.09427 | 0.06712 | 0.0552600 | 0.045630 |
| 510 | 0.11830 | 0.18700 | 0.2030000 | 0.085200 |
| 511 | 0.08099 | 0.09661 | 0.0672600 | 0.026390 |
| 512 | 0.08472 | 0.05016 | 0.0341600 | 0.025410 |
| 513 | 0.11060 | 0.14690 | 0.1445000 | 0.081720 |
| 514 | 0.09832 | 0.08918 | 0.0822200 | 0.043490 |
| 515 | 0.09215 | 0.08597 | 0.0748600 | 0.043350 |
| 516 | 0.10490 | 0.08499 | 0.0430200 | 0.025940 |
| 517 | 0.10680 | 0.12480 | 0.1569000 | 0.094510 |

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|-----|---------|---------|-----------|----------|
| 518 | 0.10370 | 0.13100 | 0.1411000 | 0.094310 |
| 519 | 0.12180 | 0.16610 | 0.0482500 | 0.053030 |
| 520 | 0.11250 | 0.11170 | 0.0388000 | 0.029950 |
| 521 | 0.13710 | 0.12250 | 0.0333200 | 0.024210 |
| 522 | 0.10300 | 0.21060 | 0.2310000 | 0.147100 |
| 523 | 0.08511 | 0.04413 | 0.0050670 | 0.005664 |
| 524 | 0.09916 | 0.10700 | 0.0538500 | 0.037830 |
| 525 | 0.09492 | 0.08419 | 0.0233000 | 0.024160 |
| 526 | 0.10360 | 0.07632 | 0.0256500 | 0.015100 |
| 527 | 0.10750 | 0.11380 | 0.0420100 | 0.031520 |
| 528 | 0.09003 | 0.06307 | 0.0295800 | 0.026470 |
| 529 | 0.12480 | 0.09755 | 0.1010000 | 0.066150 |
| 530 | 0.11000 | 0.09009 | 0.0378100 | 0.027980 |
| 531 | 0.10730 | 0.09713 | 0.0528200 | 0.044400 |
| 532 | 0.10160 | 0.09453 | 0.0420000 | 0.021570 |
| 533 | 0.09277 | 0.07255 | 0.0175200 | 0.018800 |
| 534 | 0.09156 | 0.13130 | 0.1523000 | 0.101500 |
| 535 | 0.09687 | 0.09752 | 0.0526300 | 0.027880 |
| 536 | 0.10460 | 0.17390 | 0.2085000 | 0.132200 |
| 537 | 0.10380 | 0.11540 | 0.1463000 | 0.061390 |
| 538 | 0.12360 | 0.15520 | 0.0451500 | 0.045310 |
| 539 | 0.08098 | 0.04878 | 0.0000000 | 0.000000 |
| 540 | 0.08668 | 0.11990 | 0.0925200 | 0.013640 |
| 541 | 0.09984 | 0.11200 | 0.0673700 | 0.025940 |
| 542 | 0.08837 | 0.12300 | 0.1009000 | 0.038900 |
| 543 | 0.08275 | 0.07214 | 0.0410500 | 0.030270 |
| 544 | 0.08671 | 0.06877 | 0.0298700 | 0.032750 |
| 545 | 0.09578 | 0.10180 | 0.0368800 | 0.023690 |
| 546 | 0.09246 | 0.06747 | 0.0297400 | 0.024430 |
| 547 | 0.09434 | 0.04994 | 0.0101200 | 0.005495 |
| 548 | 0.08877 | 0.08066 | 0.0435800 | 0.024380 |
| 549 | 0.08491 | 0.05030 | 0.0233700 | 0.009615 |
| 550 | 0.08192 | 0.06602 | 0.0154800 | 0.008160 |
| 551 | 0.07431 | 0.04227 | 0.0000000 | 0.000000 |
| 552 | 0.09566 | 0.08194 | 0.0482400 | 0.022570 |
| 553 | 0.08276 | 0.04234 | 0.0199700 | 0.014990 |
| 554 | 0.09240 | 0.05605 | 0.0399600 | 0.012820 |
| 555 | 0.08123 | 0.05824 | 0.0619500 | 0.023430 |
| 556 | 0.09030 | 0.07658 | 0.0599900 | 0.027380 |
| 557 | 0.10030 | 0.07504 | 0.0050250 | 0.011160 |
| 558 | 0.08123 | 0.04971 | 0.0000000 | 0.000000 |
| 559 | 0.08473 | 0.13300 | 0.1029000 | 0.037360 |
| 560 | 0.09261 | 0.10210 | 0.1112000 | 0.041050 |

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|-----|---------------|------------------------|-----------|------------|--------------|
| 561 | 0.09929 | 0.11260 | 0.0446200 | | 0.043040 |
| 562 | 0.07449 | 0.03558 | 0.0000000 | | 0.000000 |
| 563 | 0.10480 | 0.20870 | 0.2550000 | | 0.094290 |
| 564 | 0.10990 | 0.22360 | 0.3174000 | | 0.147400 |
| 565 | 0.11100 | 0.11590 | 0.2439000 | | 0.138900 |
| 566 | 0.09780 | 0.10340 | 0.1440000 | | 0.097910 |
| 567 | 0.08455 | 0.10230 | 0.0925100 | | 0.053020 |
| 568 | 0.11780 | 0.27700 | 0.3514000 | | 0.152000 |
| 569 | 0.05263 | 0.04362 | 0.0000000 | | 0.000000 |
| | symmetry_mean | fractal_dimension_mean | radius_se | texture_se | perimeter_se |
| 1 | 0.2419 | 0.07871 | 1.0950 | 0.9053 | 8.5890 |
| 2 | 0.1812 | 0.05667 | 0.5435 | 0.7339 | 3.3980 |
| 3 | 0.2069 | 0.05999 | 0.7456 | 0.7869 | 4.5850 |
| 4 | 0.2597 | 0.09744 | 0.4956 | 1.1560 | 3.4450 |
| 5 | 0.1809 | 0.05883 | 0.7572 | 0.7813 | 5.4380 |
| 6 | 0.2087 | 0.07613 | 0.3345 | 0.8902 | 2.2170 |
| 7 | 0.1794 | 0.05742 | 0.4467 | 0.7732 | 3.1800 |
| 8 | 0.2196 | 0.07451 | 0.5835 | 1.3770 | 3.8560 |
| 9 | 0.2350 | 0.07389 | 0.3063 | 1.0020 | 2.4060 |
| 10 | 0.2030 | 0.08243 | 0.2976 | 1.5990 | 2.0390 |
| 11 | 0.1528 | 0.05697 | 0.3795 | 1.1870 | 2.4660 |
| 12 | 0.1842 | 0.06082 | 0.5058 | 0.9849 | 3.5640 |
| 13 | 0.2397 | 0.07800 | 0.9555 | 3.5680 | 11.0700 |
| 14 | 0.1847 | 0.05338 | 0.4033 | 1.0780 | 2.9030 |
| 15 | 0.2069 | 0.07682 | 0.2121 | 1.1690 | 2.0610 |
| 16 | 0.2303 | 0.07077 | 0.3700 | 1.0330 | 2.8790 |
| 17 | 0.1586 | 0.05922 | 0.4727 | 1.2400 | 3.1950 |
| 18 | 0.2164 | 0.07356 | 0.5692 | 1.0730 | 3.8540 |
| 19 | 0.1582 | 0.05395 | 0.7582 | 1.0170 | 5.8650 |
| 20 | 0.1885 | 0.05766 | 0.2699 | 0.7886 | 2.0580 |
| 21 | 0.1967 | 0.06811 | 0.1852 | 0.7477 | 1.3830 |
| 22 | 0.1815 | 0.06905 | 0.2773 | 0.9768 | 1.9090 |
| 23 | 0.2521 | 0.07032 | 0.4388 | 0.7096 | 3.3840 |
| 24 | 0.1769 | 0.05278 | 0.6917 | 1.1270 | 4.3030 |
| 25 | 0.1995 | 0.06330 | 0.8068 | 0.9017 | 5.4550 |
| 26 | 0.3040 | 0.07413 | 1.0460 | 0.9760 | 7.2760 |
| 27 | 0.2252 | 0.06924 | 0.2545 | 0.9832 | 2.1100 |
| 28 | 0.1697 | 0.05699 | 0.8529 | 1.8490 | 5.6320 |
| 29 | 0.1926 | 0.06540 | 0.4390 | 1.0120 | 3.4980 |
| 30 | 0.1739 | 0.06149 | 0.6003 | 0.8225 | 4.6550 |
| 31 | 0.2183 | 0.06197 | 0.8307 | 1.4660 | 5.5740 |
| 32 | 0.2301 | 0.07799 | 0.4825 | 1.0300 | 3.4750 |
| 33 | 0.2248 | 0.06382 | 0.6009 | 1.3980 | 3.9990 |

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|----|--------|---------|--------|--------|--------|
| 34 | 0.1853 | 0.06261 | 0.5558 | 0.6062 | 3.5280 |
| 35 | 0.1998 | 0.06515 | 0.3340 | 0.6857 | 2.1830 |
| 36 | 0.1896 | 0.05656 | 0.4615 | 0.9197 | 3.0080 |
| 37 | 0.1885 | 0.06125 | 0.2860 | 1.0190 | 2.6570 |
| 38 | 0.1467 | 0.05863 | 0.1839 | 2.3420 | 1.1700 |
| 39 | 0.1565 | 0.05504 | 1.2140 | 2.1880 | 8.0770 |
| 40 | 0.1720 | 0.06419 | 0.2130 | 0.5914 | 1.5450 |
| 41 | 0.1784 | 0.05587 | 0.2385 | 0.8265 | 1.5720 |
| 42 | 0.1895 | 0.06870 | 0.2366 | 1.4280 | 1.8220 |
| 43 | 0.2310 | 0.06343 | 0.9811 | 1.6660 | 8.8300 |
| 44 | 0.1974 | 0.06782 | 0.3704 | 0.8249 | 2.4270 |
| 45 | 0.1746 | 0.06177 | 0.1938 | 0.6123 | 1.3340 |
| 46 | 0.1907 | 0.06049 | 0.6289 | 0.6633 | 4.2930 |
| 47 | 0.1769 | 0.06503 | 0.1563 | 0.9567 | 1.0940 |
| 48 | 0.2128 | 0.06777 | 0.2871 | 0.8937 | 1.8970 |
| 49 | 0.1675 | 0.06043 | 0.2636 | 0.7294 | 1.8480 |
| 50 | 0.1809 | 0.05718 | 0.2338 | 1.3530 | 1.7350 |
| 51 | 0.1495 | 0.05888 | 0.4062 | 1.2100 | 2.6350 |
| 52 | 0.1353 | 0.05953 | 0.1872 | 0.9234 | 1.4490 |
| 53 | 0.1868 | 0.06110 | 0.2273 | 0.6329 | 1.5200 |
| 54 | 0.2092 | 0.06310 | 0.8337 | 1.5930 | 4.8770 |
| 55 | 0.1616 | 0.05684 | 0.3105 | 0.8339 | 2.0970 |
| 56 | 0.1920 | 0.05907 | 0.3249 | 0.9591 | 2.1830 |
| 57 | 0.1917 | 0.05961 | 0.7275 | 1.1930 | 4.8370 |
| 58 | 0.2027 | 0.06758 | 0.4226 | 1.1500 | 2.7350 |
| 59 | 0.1819 | 0.05501 | 0.4040 | 1.2140 | 2.5950 |
| 60 | 0.1683 | 0.07187 | 0.1559 | 0.5796 | 1.0460 |
| 61 | 0.2743 | 0.06960 | 0.5158 | 1.4410 | 3.3120 |
| 62 | 0.1828 | 0.06757 | 0.3582 | 2.0670 | 2.4930 |
| 63 | 0.1949 | 0.07292 | 0.7036 | 1.2680 | 5.3730 |
| 64 | 0.2341 | 0.06963 | 0.4098 | 2.2650 | 2.6080 |
| 65 | 0.1905 | 0.06590 | 0.4255 | 1.1780 | 2.9270 |
| 66 | 0.1953 | 0.06654 | 0.3577 | 1.2810 | 2.4500 |
| 67 | 0.1717 | 0.06899 | 0.2351 | 2.0110 | 1.6600 |
| 68 | 0.1516 | 0.05667 | 0.2727 | 0.9429 | 1.8310 |
| 69 | 0.2111 | 0.08046 | 0.3274 | 1.1940 | 1.8850 |
| 70 | 0.1590 | 0.05653 | 0.2368 | 0.8732 | 1.4710 |
| 71 | 0.1582 | 0.05461 | 0.7888 | 0.7975 | 5.4860 |
| 72 | 0.1902 | 0.08980 | 0.5262 | 0.8522 | 3.1680 |
| 73 | 0.1927 | 0.06487 | 0.5907 | 1.0410 | 3.7050 |
| 74 | 0.1662 | 0.06566 | 0.2787 | 0.6205 | 1.9570 |
| 75 | 0.1720 | 0.05914 | 0.2505 | 1.0250 | 1.7400 |
| 76 | 0.1798 | 0.05391 | 0.7474 | 1.0160 | 5.0290 |

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|-----|--------|---------|--------|--------|---------|
| 77 | 0.2403 | 0.06641 | 0.4101 | 1.0140 | 2.6520 |
| 78 | 0.2152 | 0.06673 | 0.9806 | 0.5505 | 6.3110 |
| 79 | 0.2906 | 0.08142 | 0.9317 | 1.8850 | 8.6490 |
| 80 | 0.1718 | 0.05997 | 0.2655 | 1.0950 | 1.7780 |
| 81 | 0.1842 | 0.07005 | 0.3251 | 2.1740 | 2.0770 |
| 82 | 0.1942 | 0.06902 | 0.2860 | 1.0160 | 1.5350 |
| 83 | 0.1829 | 0.06782 | 0.8973 | 1.4740 | 7.3820 |
| 84 | 0.1634 | 0.07224 | 0.5190 | 2.9100 | 5.8010 |
| 85 | 0.2079 | 0.05968 | 0.2271 | 1.2550 | 1.4410 |
| 86 | 0.2132 | 0.06022 | 0.6997 | 1.4750 | 4.7820 |
| 87 | 0.2075 | 0.05636 | 0.4204 | 2.2200 | 3.3010 |
| 88 | 0.1953 | 0.05629 | 0.5495 | 0.6636 | 3.0550 |
| 89 | 0.1930 | 0.06404 | 0.2978 | 1.5020 | 2.2030 |
| 90 | 0.2116 | 0.06346 | 0.5115 | 0.7372 | 3.8140 |
| 91 | 0.1685 | 0.05866 | 0.3721 | 1.1110 | 2.2790 |
| 92 | 0.1717 | 0.06097 | 0.3129 | 0.8413 | 2.0750 |
| 93 | 0.1386 | 0.05318 | 0.4057 | 1.1530 | 2.7010 |
| 94 | 0.1638 | 0.05710 | 0.2950 | 1.3730 | 2.0990 |
| 95 | 0.1855 | 0.06284 | 0.4768 | 0.9644 | 3.7060 |
| 96 | 0.2095 | 0.05649 | 0.7576 | 1.5090 | 4.5540 |
| 97 | 0.1900 | 0.06635 | 0.3661 | 1.5110 | 2.4100 |
| 98 | 0.1350 | 0.06890 | 0.3350 | 2.0430 | 2.1320 |
| 99 | 0.1620 | 0.06582 | 0.2315 | 0.5391 | 1.4750 |
| 100 | 0.1879 | 0.06390 | 0.2895 | 1.8510 | 2.3760 |
| 101 | 0.1609 | 0.05871 | 0.4565 | 1.2900 | 2.8610 |
| 102 | 0.1930 | 0.07818 | 0.2241 | 1.5080 | 1.5530 |
| 103 | 0.1739 | 0.05677 | 0.1924 | 1.5710 | 1.1830 |
| 104 | 0.1945 | 0.06322 | 0.1803 | 1.2220 | 1.5280 |
| 105 | 0.2217 | 0.06481 | 0.3550 | 1.5340 | 2.3020 |
| 106 | 0.1925 | 0.07692 | 0.3908 | 0.9238 | 2.4100 |
| 107 | 0.1801 | 0.06520 | 0.3060 | 1.6570 | 2.1550 |
| 108 | 0.1602 | 0.06066 | 0.1199 | 0.8944 | 0.8484 |
| 109 | 0.2556 | 0.07039 | 1.2150 | 1.5450 | 10.0500 |
| 110 | 0.1487 | 0.06529 | 0.2344 | 0.9861 | 1.5970 |
| 111 | 0.1584 | 0.07065 | 0.4030 | 1.4240 | 2.7470 |
| 112 | 0.1735 | 0.07070 | 0.3424 | 1.8030 | 2.7110 |
| 113 | 0.1704 | 0.07769 | 0.3628 | 1.4900 | 3.3990 |
| 114 | 0.1922 | 0.07782 | 0.3336 | 1.8600 | 2.0410 |
| 115 | 0.1649 | 0.07633 | 0.1665 | 0.5864 | 1.3540 |
| 116 | 0.1688 | 0.06194 | 0.3118 | 0.9227 | 2.0000 |
| 117 | 0.1305 | 0.07163 | 0.3132 | 0.9789 | 3.2800 |
| 118 | 0.2157 | 0.06768 | 0.4266 | 0.9489 | 2.9890 |
| 119 | 0.2096 | 0.07331 | 0.5520 | 1.0720 | 3.5980 |

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|-----|--------|---------|--------|--------|--------|
| 120 | 0.2129 | 0.05025 | 0.5506 | 1.2140 | 3.3570 |
| 121 | 0.1667 | 0.06113 | 0.1408 | 0.4607 | 1.1030 |
| 122 | 0.1966 | 0.06213 | 0.7128 | 1.5810 | 4.8950 |
| 123 | 0.2655 | 0.06877 | 1.5090 | 3.1200 | 9.8070 |
| 124 | 0.1856 | 0.06402 | 0.2929 | 0.8570 | 1.9280 |
| 125 | 0.1422 | 0.05823 | 0.1639 | 1.1400 | 1.2230 |
| 126 | 0.1614 | 0.05890 | 0.2185 | 0.8561 | 1.4950 |
| 127 | 0.1761 | 0.06130 | 0.2310 | 1.0050 | 1.7520 |
| 128 | 0.1946 | 0.05044 | 0.6896 | 1.3420 | 5.2160 |
| 129 | 0.2001 | 0.06467 | 0.4309 | 1.0680 | 2.7960 |
| 130 | 0.2202 | 0.06113 | 0.4953 | 1.1990 | 2.7650 |
| 131 | 0.1880 | 0.06471 | 0.2005 | 0.8163 | 1.9730 |
| 132 | 0.1931 | 0.05796 | 0.4743 | 0.7859 | 3.0940 |
| 133 | 0.2160 | 0.05891 | 0.4332 | 1.2650 | 2.8440 |
| 134 | 0.1816 | 0.05723 | 0.3117 | 0.8155 | 1.9720 |
| 135 | 0.1692 | 0.05727 | 0.5959 | 1.2020 | 3.7660 |
| 136 | 0.1585 | 0.06065 | 0.2367 | 1.3800 | 1.4570 |
| 137 | 0.1339 | 0.05945 | 0.4489 | 2.5080 | 3.2580 |
| 138 | 0.1734 | 0.05865 | 0.1759 | 0.9938 | 1.1430 |
| 139 | 0.1957 | 0.06216 | 1.2960 | 1.4520 | 8.4190 |
| 140 | 0.1771 | 0.06072 | 0.3384 | 1.3430 | 1.8510 |
| 141 | 0.1903 | 0.06422 | 0.1988 | 0.4960 | 1.2180 |
| 142 | 0.1861 | 0.06248 | 0.7049 | 1.3320 | 4.5330 |
| 143 | 0.1645 | 0.06562 | 0.2843 | 1.9080 | 1.9370 |
| 144 | 0.1778 | 0.06235 | 0.2143 | 0.7712 | 1.6890 |
| 145 | 0.1399 | 0.05688 | 0.2525 | 1.2390 | 1.8060 |
| 146 | 0.1995 | 0.07839 | 0.3962 | 0.6538 | 3.0210 |
| 147 | 0.2678 | 0.07371 | 0.3197 | 1.4260 | 2.2810 |
| 148 | 0.1744 | 0.06493 | 0.4220 | 1.9090 | 3.2710 |
| 149 | 0.1724 | 0.06081 | 0.2406 | 0.7394 | 2.1200 |
| 150 | 0.1473 | 0.05580 | 0.2500 | 0.7574 | 1.5730 |
| 151 | 0.2540 | 0.06087 | 0.4202 | 1.3220 | 2.8730 |
| 152 | 0.2222 | 0.08261 | 0.1935 | 1.9620 | 1.2430 |
| 153 | 0.2548 | 0.09296 | 0.8245 | 2.6640 | 4.0730 |
| 154 | 0.1830 | 0.06105 | 0.2251 | 0.7815 | 1.4290 |
| 155 | 0.1822 | 0.06207 | 0.2710 | 0.7927 | 1.8190 |
| 156 | 0.1970 | 0.06228 | 0.2200 | 0.9823 | 1.4840 |
| 157 | 0.1971 | 0.06166 | 0.8113 | 1.4000 | 5.5400 |
| 158 | 0.1844 | 0.05268 | 0.4789 | 2.0600 | 3.4790 |
| 159 | 0.1590 | 0.05907 | 0.1822 | 0.7285 | 1.1710 |
| 160 | 0.1442 | 0.05743 | 0.2818 | 0.7614 | 1.8080 |
| 161 | 0.1993 | 0.06453 | 0.5018 | 1.6930 | 3.9260 |
| 162 | 0.1741 | 0.05176 | 1.0000 | 0.6336 | 6.9710 |

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|-----|--------|---------|--------|--------|--------|
| 163 | 0.2027 | 0.06082 | 0.7364 | 1.0480 | 4.7920 |
| 164 | 0.1551 | 0.06761 | 0.2949 | 1.6560 | 1.9550 |
| 165 | 0.1801 | 0.05553 | 0.6642 | 0.8561 | 4.6030 |
| 166 | 0.1515 | 0.05266 | 0.1840 | 1.0650 | 1.2860 |
| 167 | 0.1381 | 0.06400 | 0.1728 | 0.4064 | 1.1260 |
| 168 | 0.1893 | 0.05534 | 0.5990 | 1.3910 | 4.1290 |
| 169 | 0.1538 | 0.06365 | 1.0880 | 1.4100 | 7.3370 |
| 170 | 0.1780 | 0.05650 | 0.2713 | 1.2170 | 1.8930 |
| 171 | 0.1959 | 0.05955 | 0.2360 | 0.6656 | 1.6700 |
| 172 | 0.1598 | 0.05671 | 0.4697 | 1.1470 | 3.1420 |
| 173 | 0.1966 | 0.07069 | 0.4209 | 0.6583 | 2.8050 |
| 174 | 0.1566 | 0.06669 | 0.2073 | 1.8050 | 1.3770 |
| 175 | 0.1928 | 0.05975 | 0.3309 | 1.9250 | 2.1550 |
| 176 | 0.1722 | 0.06724 | 0.2204 | 0.7873 | 1.4350 |
| 177 | 0.1669 | 0.08116 | 0.4311 | 2.2610 | 3.1320 |
| 178 | 0.1794 | 0.06323 | 0.3037 | 1.2840 | 2.4820 |
| 179 | 0.1395 | 0.05234 | 0.1731 | 1.1420 | 1.1010 |
| 180 | 0.1466 | 0.06133 | 0.2889 | 0.9899 | 1.7780 |
| 181 | 0.1800 | 0.05770 | 0.8361 | 1.4810 | 5.8200 |
| 182 | 0.2395 | 0.07398 | 0.6298 | 0.7629 | 4.4140 |
| 183 | 0.1618 | 0.05549 | 0.3699 | 1.1500 | 2.4060 |
| 184 | 0.1167 | 0.06217 | 0.3344 | 1.1080 | 1.9020 |
| 185 | 0.1727 | 0.06317 | 0.2054 | 0.4956 | 1.3440 |
| 186 | 0.1703 | 0.06048 | 0.4245 | 1.2680 | 2.6800 |
| 187 | 0.1621 | 0.05425 | 0.2577 | 0.4757 | 1.8170 |
| 188 | 0.1516 | 0.06095 | 0.2451 | 0.7655 | 1.7420 |
| 189 | 0.1718 | 0.05780 | 0.1859 | 1.9260 | 1.0110 |
| 190 | 0.1667 | 0.05474 | 0.2382 | 0.8355 | 1.6870 |
| 191 | 0.2384 | 0.07542 | 0.2860 | 2.1100 | 2.1120 |
| 192 | 0.1694 | 0.06287 | 0.7311 | 1.7480 | 5.1180 |
| 193 | 0.1653 | 0.06447 | 0.3539 | 4.8850 | 2.2300 |
| 194 | 0.1943 | 0.06937 | 0.4053 | 1.8090 | 2.6420 |
| 195 | 0.1737 | 0.06672 | 0.2796 | 0.9622 | 3.5910 |
| 196 | 0.1829 | 0.05667 | 0.1942 | 0.9086 | 1.4930 |
| 197 | 0.1834 | 0.06877 | 0.6191 | 2.1120 | 4.9060 |
| 198 | 0.1770 | 0.05340 | 0.6362 | 1.3050 | 4.3120 |
| 199 | 0.1767 | 0.05529 | 0.4357 | 1.0730 | 3.8330 |
| 200 | 0.1950 | 0.06466 | 0.2092 | 0.6509 | 1.4460 |
| 201 | 0.1979 | 0.06013 | 0.3534 | 1.3260 | 2.3080 |
| 202 | 0.1506 | 0.05491 | 0.3971 | 0.8282 | 3.0880 |
| 203 | 0.2200 | 0.06229 | 0.5539 | 1.5600 | 4.6670 |
| 204 | 0.2251 | 0.07421 | 0.5648 | 1.9300 | 3.9090 |
| 205 | 0.1925 | 0.06373 | 0.3961 | 1.0440 | 2.4970 |

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|-----|--------|---------|--------|--------|---------|
| 206 | 0.1594 | 0.05986 | 0.2711 | 0.3621 | 1.9740 |
| 207 | 0.1934 | 0.06285 | 0.2137 | 1.3420 | 1.5170 |
| 208 | 0.2026 | 0.05223 | 0.5858 | 0.8554 | 4.1060 |
| 209 | 0.1850 | 0.07310 | 0.1931 | 0.9223 | 1.4910 |
| 210 | 0.1359 | 0.05526 | 0.2134 | 0.3628 | 1.5250 |
| 211 | 0.1765 | 0.05024 | 0.8601 | 1.4800 | 7.0290 |
| 212 | 0.1533 | 0.06057 | 0.2222 | 0.8652 | 1.4440 |
| 213 | 0.1648 | 0.05525 | 2.8730 | 1.4760 | 21.9800 |
| 214 | 0.1308 | 0.05866 | 0.5296 | 1.6670 | 3.7670 |
| 215 | 0.2235 | 0.06433 | 0.4207 | 1.8450 | 3.5340 |
| 216 | 0.2106 | 0.06916 | 0.2563 | 1.1940 | 1.9330 |
| 217 | 0.1967 | 0.06314 | 0.2963 | 1.5630 | 2.0870 |
| 218 | 0.1964 | 0.06315 | 0.3567 | 1.9220 | 2.7470 |
| 219 | 0.2094 | 0.05581 | 0.9553 | 1.1860 | 6.4870 |
| 220 | 0.1428 | 0.05313 | 0.7392 | 1.3210 | 4.7220 |
| 221 | 0.1360 | 0.06344 | 0.2102 | 0.4336 | 1.3910 |
| 222 | 0.1962 | 0.06303 | 0.2569 | 0.4981 | 2.0110 |
| 223 | 0.1910 | 0.06908 | 0.2467 | 1.2170 | 1.6410 |
| 224 | 0.1935 | 0.06303 | 0.3473 | 0.9209 | 2.2440 |
| 225 | 0.1496 | 0.05674 | 0.2927 | 0.8907 | 2.0440 |
| 226 | 0.2075 | 0.05448 | 0.5220 | 0.8121 | 3.7630 |
| 227 | 0.1788 | 0.06450 | 0.1913 | 0.9027 | 1.2080 |
| 228 | 0.1881 | 0.05907 | 0.2318 | 0.4966 | 2.2760 |
| 229 | 0.1514 | 0.06019 | 0.2449 | 1.0660 | 1.4450 |
| 230 | 0.2123 | 0.07254 | 0.3061 | 1.0690 | 2.2570 |
| 231 | 0.2131 | 0.06325 | 0.2959 | 0.6790 | 2.1530 |
| 232 | 0.1869 | 0.05628 | 0.1210 | 0.8927 | 1.0590 |
| 233 | 0.1845 | 0.05828 | 0.2239 | 1.6470 | 1.4890 |
| 234 | 0.1448 | 0.05592 | 0.5240 | 1.1890 | 3.7670 |
| 235 | 0.1551 | 0.06403 | 0.2152 | 0.8301 | 1.2150 |
| 236 | 0.1517 | 0.05835 | 0.2589 | 1.5030 | 1.6670 |
| 237 | 0.1909 | 0.06309 | 1.0580 | 0.9635 | 7.2470 |
| 238 | 0.1467 | 0.05177 | 0.6874 | 1.0410 | 5.1440 |
| 239 | 0.1342 | 0.06129 | 0.3354 | 2.3240 | 2.1050 |
| 240 | 0.1809 | 0.05966 | 0.5366 | 0.8561 | 3.0020 |
| 241 | 0.1717 | 0.05660 | 0.3242 | 0.6612 | 1.9960 |
| 242 | 0.1546 | 0.05754 | 0.1153 | 0.6745 | 0.7570 |
| 243 | 0.2054 | 0.07669 | 0.2428 | 1.6420 | 2.3690 |
| 244 | 0.1773 | 0.05429 | 0.4347 | 1.0570 | 2.8290 |
| 245 | 0.1978 | 0.06000 | 0.5243 | 1.8020 | 4.0370 |
| 246 | 0.1737 | 0.06440 | 0.3719 | 2.6120 | 2.5170 |
| 247 | 0.1487 | 0.05635 | 0.1630 | 1.6010 | 0.8730 |
| 248 | 0.1596 | 0.06409 | 0.2025 | 0.4402 | 2.3930 |

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| 249 | 0.1897 | 0.06329 | 0.2497 | 1.4930 | 1.4970 |
| 250 | 0.1883 | 0.06168 | 0.2562 | 1.0380 | 1.6860 |
| 251 | 0.2205 | 0.05898 | 1.0040 | 0.8208 | 6.3720 |
| 252 | 0.1834 | 0.05934 | 0.3927 | 0.8429 | 2.6840 |
| 253 | 0.1733 | 0.06697 | 0.7661 | 0.7800 | 4.1150 |
| 254 | 0.1813 | 0.05613 | 0.3093 | 0.8568 | 2.1930 |
| 255 | 0.1776 | 0.05647 | 0.5959 | 0.6342 | 3.7970 |
| 256 | 0.1908 | 0.06130 | 0.4250 | 0.8098 | 2.5630 |
| 257 | 0.1893 | 0.06232 | 0.8426 | 1.1990 | 7.1580 |
| 258 | 0.2398 | 0.07596 | 0.6592 | 1.0590 | 4.0610 |
| 259 | 0.2495 | 0.08104 | 1.2920 | 2.4540 | 10.1200 |
| 260 | 0.2091 | 0.06650 | 0.2419 | 1.2780 | 1.9030 |
| 261 | 0.1814 | 0.05572 | 0.3977 | 1.0330 | 2.5870 |
| 262 | 0.1564 | 0.05307 | 0.4007 | 1.3170 | 2.5770 |
| 263 | 0.2108 | 0.05464 | 0.8348 | 1.6330 | 6.1460 |
| 264 | 0.1547 | 0.05443 | 0.2298 | 0.9988 | 1.5340 |
| 265 | 0.1867 | 0.05580 | 0.4203 | 0.7383 | 2.8190 |
| 266 | 0.1769 | 0.05674 | 1.1720 | 1.6170 | 7.7490 |
| 267 | 0.1922 | 0.06491 | 0.4505 | 1.1970 | 3.4300 |
| 268 | 0.1635 | 0.05859 | 0.3380 | 1.9160 | 2.5910 |
| 269 | 0.2010 | 0.05769 | 0.2345 | 1.2190 | 1.5460 |
| 270 | 0.1668 | 0.06862 | 0.3198 | 1.4890 | 2.2300 |
| 271 | 0.1508 | 0.05376 | 0.1302 | 0.7198 | 0.8439 |
| 272 | 0.1769 | 0.06270 | 0.1904 | 0.5293 | 1.1640 |
| 273 | 0.1721 | 0.06194 | 1.1670 | 1.3520 | 8.8670 |
| 274 | 0.2081 | 0.06312 | 0.2684 | 1.4090 | 1.7500 |
| 275 | 0.1538 | 0.05510 | 0.4212 | 1.4330 | 2.7650 |
| 276 | 0.2015 | 0.05875 | 0.6412 | 2.2930 | 4.0210 |
| 277 | 0.1954 | 0.05821 | 0.2375 | 1.2800 | 1.5650 |
| 278 | 0.1550 | 0.04996 | 0.3283 | 0.8280 | 2.3630 |
| 279 | 0.1573 | 0.05520 | 0.2580 | 1.1660 | 1.6830 |
| 280 | 0.2110 | 0.05853 | 0.2479 | 0.9195 | 1.8300 |
| 281 | 0.1902 | 0.06220 | 0.6361 | 1.0010 | 4.3210 |
| 282 | 0.2101 | 0.06113 | 0.5619 | 1.2680 | 3.7170 |
| 283 | 0.1893 | 0.05892 | 0.4709 | 0.9951 | 2.9030 |
| 284 | 0.1876 | 0.06684 | 0.2873 | 0.9173 | 2.4640 |
| 285 | 0.1432 | 0.05935 | 0.2913 | 1.3890 | 2.3470 |
| 286 | 0.1697 | 0.05855 | 0.2719 | 1.3500 | 1.7210 |
| 287 | 0.1588 | 0.06766 | 0.2742 | 1.3900 | 3.1980 |
| 288 | 0.1337 | 0.05581 | 0.1532 | 0.4690 | 1.1150 |
| 289 | 0.2595 | 0.06233 | 0.4866 | 1.9050 | 2.8770 |
| 290 | 0.2013 | 0.05955 | 0.2656 | 1.9740 | 1.9540 |
| 291 | 0.1714 | 0.07192 | 0.8811 | 1.7700 | 4.3600 |

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|-----|--------|---------|--------|--------|--------|
| 292 | 0.1879 | 0.05852 | 0.2877 | 0.9480 | 2.1710 |
| 293 | 0.1730 | 0.06470 | 0.2094 | 0.7636 | 1.2310 |
| 294 | 0.1875 | 0.05715 | 0.2070 | 1.2380 | 1.2340 |
| 295 | 0.1638 | 0.06100 | 0.1807 | 0.6931 | 1.3400 |
| 296 | 0.1592 | 0.05912 | 0.2191 | 0.6946 | 1.4790 |
| 297 | 0.1449 | 0.06031 | 0.1753 | 1.0270 | 1.2670 |
| 298 | 0.1619 | 0.06287 | 0.6450 | 2.1050 | 4.1380 |
| 299 | 0.1635 | 0.05586 | 0.2300 | 0.6690 | 1.6610 |
| 300 | 0.1695 | 0.06556 | 0.2868 | 1.1430 | 2.2890 |
| 301 | 0.1792 | 0.06552 | 1.1110 | 1.1610 | 7.2370 |
| 302 | 0.1781 | 0.06249 | 0.3642 | 1.0400 | 2.5790 |
| 303 | 0.2249 | 0.07469 | 1.0720 | 1.7430 | 7.8040 |
| 304 | 0.1482 | 0.06600 | 0.1485 | 1.5630 | 1.0350 |
| 305 | 0.1411 | 0.06243 | 0.3278 | 1.0590 | 2.4750 |
| 306 | 0.1935 | 0.05878 | 0.2512 | 1.7860 | 1.9610 |
| 307 | 0.1632 | 0.05894 | 0.1903 | 0.5735 | 1.2040 |
| 308 | 0.1788 | 0.06833 | 0.1746 | 1.3050 | 1.1440 |
| 309 | 0.1365 | 0.05335 | 0.2244 | 0.6864 | 1.5090 |
| 310 | 0.1453 | 0.05518 | 0.3975 | 0.8285 | 2.5670 |
| 311 | 0.1936 | 0.06128 | 0.1601 | 1.4300 | 1.1090 |
| 312 | 0.1632 | 0.05255 | 0.3160 | 0.9115 | 1.9540 |
| 313 | 0.1601 | 0.06140 | 0.3265 | 0.6594 | 2.3460 |
| 314 | 0.1833 | 0.06100 | 0.1312 | 0.3602 | 1.1070 |
| 315 | 0.2163 | 0.07359 | 0.3368 | 2.7770 | 2.2220 |
| 316 | 0.1215 | 0.05673 | 0.1716 | 0.7151 | 1.0470 |
| 317 | 0.1673 | 0.05649 | 0.2113 | 0.5996 | 1.4380 |
| 318 | 0.1807 | 0.05664 | 0.4041 | 0.5503 | 2.5470 |
| 319 | 0.2330 | 0.08743 | 0.4653 | 1.9110 | 3.7690 |
| 320 | 0.1472 | 0.05561 | 0.3778 | 2.2000 | 2.4870 |
| 321 | 0.1743 | 0.07279 | 0.3677 | 1.4710 | 1.5970 |
| 322 | 0.1928 | 0.05096 | 0.5925 | 0.6863 | 3.8680 |
| 323 | 0.1543 | 0.06476 | 0.2212 | 1.0420 | 1.6140 |
| 324 | 0.2569 | 0.06670 | 0.5702 | 1.0230 | 4.0120 |
| 325 | 0.1638 | 0.06129 | 0.2575 | 0.8073 | 1.9590 |
| 326 | 0.1707 | 0.05984 | 0.2100 | 0.9505 | 1.5660 |
| 327 | 0.1373 | 0.05700 | 0.2571 | 1.0810 | 1.5580 |
| 328 | 0.1382 | 0.06070 | 0.2335 | 0.9097 | 1.4660 |
| 329 | 0.1948 | 0.06277 | 0.4375 | 1.2320 | 3.2700 |
| 330 | 0.1869 | 0.06532 | 0.5706 | 1.4570 | 2.9610 |
| 331 | 0.1782 | 0.05976 | 0.3371 | 0.7476 | 2.6290 |
| 332 | 0.1761 | 0.06540 | 0.2684 | 0.5664 | 2.4650 |
| 333 | 0.1940 | 0.06028 | 0.2976 | 1.9660 | 1.9590 |
| 334 | 0.1773 | 0.06081 | 0.2144 | 0.9961 | 1.5290 |

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|-----|--------|---------|--------|--------|--------|
| 335 | 0.1539 | 0.05945 | 0.1840 | 1.5320 | 1.1990 |
| 336 | 0.1727 | 0.06071 | 0.8161 | 2.1290 | 6.0760 |
| 337 | 0.1652 | 0.07238 | 0.1814 | 0.6412 | 0.9219 |
| 338 | 0.1953 | 0.06083 | 0.6422 | 1.5300 | 4.3690 |
| 339 | 0.1890 | 0.06331 | 0.2619 | 2.0150 | 1.7780 |
| 340 | 0.1797 | 0.05506 | 1.0090 | 0.9245 | 6.4620 |
| 341 | 0.1912 | 0.06412 | 0.3491 | 0.7706 | 2.6770 |
| 342 | 0.2036 | 0.07125 | 0.1844 | 0.9429 | 1.4290 |
| 343 | 0.1776 | 0.06907 | 0.1601 | 0.8225 | 1.3550 |
| 344 | 0.2082 | 0.05715 | 0.6226 | 2.2840 | 5.1730 |
| 345 | 0.2009 | 0.06506 | 0.3446 | 0.7395 | 2.3550 |
| 346 | 0.1633 | 0.07005 | 0.3380 | 2.5090 | 2.3940 |
| 347 | 0.1555 | 0.06048 | 0.2430 | 1.1520 | 1.5590 |
| 348 | 0.1521 | 0.05912 | 0.3428 | 0.3981 | 2.5370 |
| 349 | 0.1634 | 0.06372 | 0.1707 | 0.7615 | 1.0900 |
| 350 | 0.2459 | 0.06581 | 0.3610 | 1.0500 | 2.4550 |
| 351 | 0.1671 | 0.05731 | 0.3534 | 0.6724 | 2.2250 |
| 352 | 0.2375 | 0.07603 | 0.5204 | 1.3240 | 3.4770 |
| 353 | 0.1956 | 0.06121 | 0.9948 | 0.8509 | 7.2220 |
| 354 | 0.1647 | 0.06464 | 0.6534 | 1.5060 | 4.1740 |
| 355 | 0.1690 | 0.06083 | 0.4222 | 0.8092 | 3.3300 |
| 356 | 0.1533 | 0.06184 | 0.3602 | 1.4780 | 3.2120 |
| 357 | 0.2035 | 0.06501 | 0.3106 | 1.5100 | 2.5900 |
| 358 | 0.1424 | 0.05883 | 0.2543 | 1.3630 | 1.7370 |
| 359 | 0.1930 | 0.06621 | 0.5381 | 1.2000 | 4.2770 |
| 360 | 0.1506 | 0.06959 | 0.5079 | 1.2470 | 3.2670 |
| 361 | 0.1528 | 0.05185 | 0.3511 | 0.9527 | 2.3290 |
| 362 | 0.1815 | 0.05696 | 0.2621 | 1.5390 | 2.0280 |
| 363 | 0.1759 | 0.06183 | 0.2213 | 1.2850 | 1.5350 |
| 364 | 0.1495 | 0.05593 | 0.3389 | 1.4390 | 2.3440 |
| 365 | 0.1650 | 0.05701 | 0.1584 | 0.6124 | 1.0360 |
| 366 | 0.1618 | 0.05557 | 0.5781 | 0.9168 | 4.2180 |
| 367 | 0.1875 | 0.06020 | 0.9761 | 1.8920 | 7.1280 |
| 368 | 0.1695 | 0.05916 | 0.2527 | 0.7786 | 1.8740 |
| 369 | 0.1717 | 0.05054 | 1.2070 | 1.0510 | 7.7330 |
| 370 | 0.1824 | 0.06140 | 1.0080 | 0.6999 | 7.5610 |
| 371 | 0.2175 | 0.06218 | 0.4312 | 1.0220 | 2.9720 |
| 372 | 0.1721 | 0.05544 | 0.1783 | 0.4125 | 1.3380 |
| 373 | 0.1973 | 0.06183 | 0.3414 | 1.3090 | 2.4070 |
| 374 | 0.1571 | 0.05478 | 0.6137 | 0.6575 | 4.1190 |
| 375 | 0.1872 | 0.05669 | 0.1705 | 0.5066 | 1.3720 |
| 376 | 0.1990 | 0.06572 | 0.1745 | 0.4890 | 1.3490 |
| 377 | 0.2188 | 0.08450 | 0.1115 | 1.2310 | 2.3630 |

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|-----|--------|---------|--------|--------|--------|
| 378 | 0.1421 | 0.05763 | 0.1689 | 1.1500 | 1.4000 |
| 379 | 0.1792 | 0.05897 | 0.1402 | 0.5417 | 1.1010 |
| 380 | 0.2196 | 0.07950 | 0.2114 | 1.0270 | 1.7190 |
| 381 | 0.2018 | 0.06914 | 0.2562 | 0.9858 | 1.8090 |
| 382 | 0.2003 | 0.06246 | 0.1642 | 1.0310 | 1.2810 |
| 383 | 0.1203 | 0.06659 | 0.1194 | 1.4340 | 1.7780 |
| 384 | 0.1779 | 0.06588 | 0.2608 | 0.8730 | 2.1170 |
| 385 | 0.1617 | 0.05594 | 0.1833 | 0.5308 | 1.5920 |
| 386 | 0.1627 | 0.05416 | 0.4157 | 1.6270 | 2.9140 |
| 387 | 0.1646 | 0.06154 | 0.2666 | 0.8309 | 2.0970 |
| 388 | 0.1607 | 0.05474 | 0.2541 | 0.6218 | 1.7090 |
| 389 | 0.1810 | 0.07252 | 0.3305 | 1.0670 | 2.5690 |
| 390 | 0.1989 | 0.05884 | 0.6107 | 2.8360 | 5.3830 |
| 391 | 0.1800 | 0.06569 | 0.1911 | 0.5477 | 1.3480 |
| 392 | 0.1985 | 0.07098 | 0.5169 | 2.0790 | 3.1670 |
| 393 | 0.1929 | 0.06744 | 0.6470 | 1.3310 | 4.6750 |
| 394 | 0.2162 | 0.06606 | 0.6242 | 0.9209 | 4.1580 |
| 395 | 0.1937 | 0.06161 | 0.2841 | 1.6520 | 1.8690 |
| 396 | 0.1641 | 0.05764 | 0.1504 | 1.6850 | 1.2370 |
| 397 | 0.1806 | 0.06079 | 0.2136 | 1.3320 | 1.5130 |
| 398 | 0.1574 | 0.05750 | 0.3639 | 1.2650 | 2.6680 |
| 399 | 0.1535 | 0.06214 | 0.1855 | 0.6881 | 1.2630 |
| 400 | 0.1847 | 0.06019 | 0.3438 | 1.1400 | 2.2250 |
| 401 | 0.2113 | 0.07115 | 0.4030 | 0.7747 | 3.1230 |
| 402 | 0.1601 | 0.05541 | 0.2522 | 1.0450 | 1.6490 |
| 403 | 0.1874 | 0.05899 | 0.2357 | 1.2990 | 2.3970 |
| 404 | 0.1735 | 0.06200 | 0.1458 | 0.9050 | 0.9975 |
| 405 | 0.1571 | 0.05708 | 0.3833 | 0.9078 | 2.6020 |
| 406 | 0.1486 | 0.06615 | 0.3796 | 1.7430 | 3.0180 |
| 407 | 0.1735 | 0.05875 | 0.2387 | 0.6372 | 1.7290 |
| 408 | 0.1580 | 0.06114 | 0.4993 | 1.7980 | 2.5520 |
| 409 | 0.1992 | 0.06069 | 0.4537 | 0.8733 | 3.0610 |
| 410 | 0.1966 | 0.05597 | 0.3342 | 1.7810 | 2.0790 |
| 411 | 0.1601 | 0.05913 | 0.1916 | 1.5550 | 1.3590 |
| 412 | 0.1714 | 0.06340 | 0.1967 | 1.3870 | 1.3420 |
| 413 | 0.1274 | 0.06724 | 0.1186 | 1.1820 | 1.1740 |
| 414 | 0.1944 | 0.05913 | 0.3186 | 1.3360 | 2.3100 |
| 415 | 0.1852 | 0.05294 | 0.4681 | 1.6270 | 3.0430 |
| 416 | 0.2019 | 0.06290 | 0.2747 | 1.2030 | 1.9300 |
| 417 | 0.2025 | 0.06601 | 0.4302 | 2.8780 | 2.7590 |
| 418 | 0.2085 | 0.06864 | 1.3700 | 1.2130 | 9.4240 |
| 419 | 0.1583 | 0.06275 | 0.2253 | 0.6457 | 1.5270 |
| 420 | 0.1615 | 0.06144 | 0.2865 | 1.6780 | 1.9680 |

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|-----|--------|---------|--------|--------|---------|
| 421 | 0.2031 | 0.06267 | 0.2864 | 1.4400 | 2.2060 |
| 422 | 0.2086 | 0.07406 | 0.5462 | 1.5110 | 4.7950 |
| 423 | 0.1886 | 0.06320 | 0.2456 | 0.7339 | 1.6670 |
| 424 | 0.1848 | 0.06181 | 0.2244 | 0.8950 | 1.8040 |
| 425 | 0.2538 | 0.07029 | 0.6965 | 1.7470 | 4.6070 |
| 426 | 0.1630 | 0.06439 | 0.1851 | 1.3410 | 1.1840 |
| 427 | 0.1925 | 0.06915 | 0.3276 | 1.1270 | 2.5640 |
| 428 | 0.2016 | 0.05977 | 0.3077 | 1.6210 | 2.2400 |
| 429 | 0.1511 | 0.06148 | 0.1415 | 0.9671 | 0.9680 |
| 430 | 0.1459 | 0.05544 | 0.2954 | 0.8836 | 2.1090 |
| 431 | 0.2041 | 0.06898 | 0.2530 | 0.8749 | 3.4660 |
| 432 | 0.1811 | 0.07102 | 0.1767 | 1.4600 | 2.2040 |
| 433 | 0.1724 | 0.06053 | 0.4331 | 1.0010 | 3.0080 |
| 434 | 0.1943 | 0.06132 | 0.8191 | 1.9310 | 4.4930 |
| 435 | 0.1573 | 0.05703 | 0.3028 | 0.6683 | 1.6120 |
| 436 | 0.1669 | 0.06544 | 0.2208 | 0.9533 | 1.6020 |
| 437 | 0.1861 | 0.06347 | 0.3665 | 0.7693 | 2.5970 |
| 438 | 0.1714 | 0.05898 | 0.3892 | 1.0460 | 2.6440 |
| 439 | 0.1555 | 0.05673 | 0.3419 | 1.6780 | 2.3310 |
| 440 | 0.1589 | 0.05586 | 0.2142 | 0.6549 | 1.6060 |
| 441 | 0.1489 | 0.06640 | 0.2574 | 1.3760 | 2.8060 |
| 442 | 0.1467 | 0.05407 | 0.5100 | 1.6790 | 3.2830 |
| 443 | 0.1405 | 0.05848 | 0.3563 | 0.4833 | 2.2350 |
| 444 | 0.2372 | 0.05768 | 0.1818 | 2.5420 | 1.2770 |
| 445 | 0.1720 | 0.05780 | 0.2986 | 0.5906 | 1.9210 |
| 446 | 0.1820 | 0.06850 | 0.2623 | 1.2040 | 1.8650 |
| 447 | 0.1713 | 0.05916 | 0.3897 | 1.0770 | 2.8730 |
| 448 | 0.1893 | 0.05886 | 0.2204 | 0.6221 | 1.4820 |
| 449 | 0.1473 | 0.05746 | 0.2535 | 1.3540 | 1.9940 |
| 450 | 0.1554 | 0.05661 | 0.6643 | 1.3610 | 4.5420 |
| 451 | 0.1349 | 0.06612 | 0.2560 | 1.5540 | 1.9550 |
| 452 | 0.1663 | 0.05391 | 0.4674 | 1.3750 | 2.9160 |
| 453 | 0.1615 | 0.06104 | 0.1912 | 1.7050 | 1.5160 |
| 454 | 0.1650 | 0.06121 | 0.3060 | 0.7213 | 2.1430 |
| 455 | 0.1799 | 0.05826 | 0.1692 | 0.6674 | 1.1160 |
| 456 | 0.1375 | 0.06016 | 0.3408 | 1.9240 | 2.2870 |
| 457 | 0.1799 | 0.06166 | 0.3135 | 2.4260 | 2.1500 |
| 458 | 0.1619 | 0.05584 | 0.2084 | 1.3500 | 1.3140 |
| 459 | 0.1667 | 0.05449 | 0.2621 | 1.2320 | 1.6570 |
| 460 | 0.1621 | 0.05952 | 0.1781 | 1.6870 | 1.2430 |
| 461 | 0.1793 | 0.06281 | 0.9291 | 1.1520 | 6.0510 |
| 462 | 0.2061 | 0.05623 | 2.5470 | 1.3060 | 18.6500 |
| 463 | 0.1707 | 0.05433 | 0.2315 | 0.9112 | 1.7270 |

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|-----|--------|---------|--------|--------|--------|
| 464 | 0.1516 | 0.05859 | 0.1816 | 0.7656 | 1.3030 |
| 465 | 0.1454 | 0.05549 | 0.2023 | 0.6850 | 1.2360 |
| 466 | 0.1601 | 0.06432 | 0.2810 | 0.8135 | 3.3690 |
| 467 | 0.1562 | 0.06020 | 0.3152 | 0.7884 | 2.3120 |
| 468 | 0.1680 | 0.06412 | 0.3416 | 1.3120 | 2.2750 |
| 469 | 0.1696 | 0.07369 | 0.9289 | 1.4650 | 5.8010 |
| 470 | 0.1957 | 0.07255 | 0.4101 | 1.7400 | 3.0270 |
| 471 | 0.2238 | 0.06413 | 0.3776 | 1.3500 | 2.5690 |
| 472 | 0.1854 | 0.05698 | 0.6061 | 2.6430 | 4.0990 |
| 473 | 0.1687 | 0.05669 | 0.2446 | 0.4334 | 1.8260 |
| 474 | 0.1701 | 0.05960 | 0.4455 | 3.6470 | 2.8840 |
| 475 | 0.1861 | 0.06837 | 0.1482 | 0.5380 | 1.3010 |
| 476 | 0.1705 | 0.05913 | 0.1499 | 0.4875 | 1.1950 |
| 477 | 0.1506 | 0.06009 | 0.3478 | 1.0180 | 2.7490 |
| 478 | 0.1813 | 0.05536 | 0.1555 | 0.5762 | 1.3920 |
| 479 | 0.1779 | 0.06574 | 0.2034 | 1.1660 | 1.5670 |
| 480 | 0.2151 | 0.06578 | 0.3147 | 0.9857 | 3.0700 |
| 481 | 0.1464 | 0.06284 | 0.2194 | 1.1900 | 1.6780 |
| 482 | 0.1579 | 0.05594 | 0.3316 | 0.9264 | 2.0560 |
| 483 | 0.1779 | 0.06639 | 0.1588 | 0.5733 | 1.1020 |
| 484 | 0.1732 | 0.06088 | 0.2431 | 0.9462 | 1.5640 |
| 485 | 0.1784 | 0.06259 | 0.1630 | 0.3871 | 1.1430 |
| 486 | 0.2082 | 0.07325 | 0.3921 | 1.2070 | 5.0040 |
| 487 | 0.1409 | 0.05355 | 0.2204 | 1.0060 | 1.4710 |
| 488 | 0.1823 | 0.06115 | 0.5659 | 1.4080 | 3.6310 |
| 489 | 0.1853 | 0.06401 | 0.3713 | 1.1540 | 2.5540 |
| 490 | 0.1846 | 0.05325 | 0.2473 | 0.5679 | 1.7750 |
| 491 | 0.1544 | 0.05976 | 0.2239 | 1.1390 | 1.5770 |
| 492 | 0.1220 | 0.05243 | 0.4834 | 1.0460 | 3.1630 |
| 493 | 0.2116 | 0.06077 | 0.7548 | 1.2880 | 5.3530 |
| 494 | 0.1613 | 0.06013 | 0.3276 | 1.4860 | 2.1080 |
| 495 | 0.1713 | 0.05888 | 0.3237 | 1.4730 | 2.3260 |
| 496 | 0.1487 | 0.05748 | 0.2323 | 1.6360 | 1.5960 |
| 497 | 0.1641 | 0.06854 | 0.2324 | 0.6332 | 1.6960 |
| 498 | 0.1526 | 0.06046 | 0.1532 | 0.7810 | 1.2530 |
| 499 | 0.1832 | 0.06697 | 0.7923 | 1.0450 | 4.8510 |
| 500 | 0.1848 | 0.06222 | 0.5904 | 1.2160 | 4.2060 |
| 501 | 0.1668 | 0.06869 | 0.3720 | 0.8423 | 2.3040 |
| 502 | 0.2275 | 0.07237 | 0.4751 | 1.5280 | 2.9740 |
| 503 | 0.1943 | 0.06612 | 0.2577 | 1.0950 | 1.5660 |
| 504 | 0.1505 | 0.05484 | 1.2910 | 0.7452 | 9.6350 |
| 505 | 0.2378 | 0.09502 | 0.4076 | 1.0930 | 3.0140 |
| 506 | 0.2057 | 0.09575 | 0.2744 | 1.3900 | 1.7870 |

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|-----|--------|---------|--------|--------|--------|
| 507 | 0.2124 | 0.06894 | 0.1811 | 0.7959 | 0.9857 |
| 508 | 0.1954 | 0.07976 | 0.1779 | 1.0300 | 1.3180 |
| 509 | 0.1711 | 0.05657 | 0.2067 | 0.4706 | 1.1460 |
| 510 | 0.1807 | 0.07083 | 0.3331 | 1.9610 | 2.9370 |
| 511 | 0.1499 | 0.06758 | 0.1924 | 0.6417 | 1.3450 |
| 512 | 0.1659 | 0.05348 | 0.2182 | 0.6232 | 1.6770 |
| 513 | 0.2116 | 0.07325 | 0.3906 | 0.9306 | 3.0930 |
| 514 | 0.1739 | 0.05640 | 0.4165 | 0.6237 | 2.5610 |
| 515 | 0.1561 | 0.05915 | 0.3860 | 1.1980 | 2.6300 |
| 516 | 0.1927 | 0.06211 | 0.2430 | 1.0100 | 1.4910 |
| 517 | 0.1860 | 0.05941 | 0.5449 | 0.9225 | 3.2180 |
| 518 | 0.1802 | 0.06188 | 0.5079 | 0.8737 | 3.6540 |
| 519 | 0.1709 | 0.07253 | 0.4426 | 1.1690 | 3.1760 |
| 520 | 0.2120 | 0.06623 | 0.3834 | 1.0030 | 2.4950 |
| 521 | 0.2197 | 0.07696 | 0.3538 | 1.1300 | 2.3880 |
| 522 | 0.1991 | 0.06739 | 0.9915 | 0.9004 | 7.0500 |
| 523 | 0.1637 | 0.06343 | 0.1344 | 1.0830 | 0.9812 |
| 524 | 0.1714 | 0.06843 | 0.3191 | 1.2490 | 2.2840 |
| 525 | 0.1387 | 0.06891 | 0.2498 | 1.2160 | 1.9760 |
| 526 | 0.1678 | 0.07126 | 0.1267 | 0.6793 | 1.0690 |
| 527 | 0.1723 | 0.06317 | 0.1998 | 0.6068 | 1.4430 |
| 528 | 0.1689 | 0.05808 | 0.1166 | 0.4957 | 0.7714 |
| 529 | 0.1976 | 0.06457 | 0.5461 | 2.6350 | 4.0910 |
| 530 | 0.1657 | 0.06608 | 0.2513 | 0.5040 | 1.7140 |
| 531 | 0.1598 | 0.06677 | 0.4384 | 1.9070 | 3.1490 |
| 532 | 0.1859 | 0.06461 | 0.2067 | 0.8745 | 1.3930 |
| 533 | 0.1631 | 0.06155 | 0.2047 | 0.4801 | 1.3730 |
| 534 | 0.2166 | 0.05419 | 0.8336 | 1.7360 | 5.1680 |
| 535 | 0.1619 | 0.06408 | 0.1507 | 1.5830 | 1.1650 |
| 536 | 0.2127 | 0.06251 | 0.6986 | 0.9901 | 4.7060 |
| 537 | 0.1926 | 0.05982 | 0.2027 | 1.8510 | 1.8950 |
| 538 | 0.2131 | 0.07405 | 0.2957 | 1.9780 | 2.1580 |
| 539 | 0.1870 | 0.07285 | 0.3777 | 1.4620 | 2.4920 |
| 540 | 0.2037 | 0.07751 | 0.2196 | 1.4790 | 1.4450 |
| 541 | 0.1818 | 0.06782 | 0.2784 | 1.7680 | 1.6280 |
| 542 | 0.1872 | 0.06341 | 0.2542 | 1.0790 | 2.6150 |
| 543 | 0.1840 | 0.05680 | 0.3031 | 1.3850 | 2.1770 |
| 544 | 0.1628 | 0.05781 | 0.2351 | 1.5970 | 1.5390 |
| 545 | 0.1620 | 0.06688 | 0.2720 | 1.0470 | 2.0760 |
| 546 | 0.1664 | 0.05801 | 0.3460 | 1.3360 | 2.0660 |
| 547 | 0.1885 | 0.06201 | 0.2104 | 0.9670 | 1.3560 |
| 548 | 0.1669 | 0.06714 | 0.1144 | 1.0230 | 0.9887 |
| 549 | 0.1580 | 0.06235 | 0.2957 | 1.3630 | 2.0540 |

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|-----|--------|---------|--------|--------|--------|
| 550 | 0.1976 | 0.06328 | 0.5196 | 1.9180 | 3.5640 |
| 551 | 0.1661 | 0.05948 | 0.3163 | 1.3040 | 2.1150 |
| 552 | 0.2030 | 0.06552 | 0.2800 | 1.4670 | 1.9940 |
| 553 | 0.1539 | 0.05637 | 0.2409 | 1.3670 | 1.4770 |
| 554 | 0.1692 | 0.06576 | 0.3013 | 1.8790 | 2.1210 |
| 555 | 0.1566 | 0.05708 | 0.2116 | 1.3600 | 1.5020 |
| 556 | 0.1593 | 0.06127 | 0.2199 | 2.2390 | 1.4370 |
| 557 | 0.1791 | 0.06331 | 0.2441 | 2.0900 | 1.6480 |
| 558 | 0.1742 | 0.06059 | 0.5375 | 2.9270 | 3.6180 |
| 559 | 0.1454 | 0.06147 | 0.2254 | 1.1080 | 2.2240 |
| 560 | 0.1388 | 0.06570 | 0.2388 | 2.9040 | 1.9360 |
| 561 | 0.1537 | 0.06171 | 0.3645 | 1.4920 | 2.8880 |
| 562 | 0.1060 | 0.05502 | 0.3141 | 3.8960 | 2.0410 |
| 563 | 0.2128 | 0.07152 | 0.2602 | 1.2050 | 2.3620 |
| 564 | 0.2149 | 0.06879 | 0.9622 | 1.0260 | 8.7580 |
| 565 | 0.1726 | 0.05623 | 1.1760 | 1.2560 | 7.6730 |
| 566 | 0.1752 | 0.05533 | 0.7655 | 2.4630 | 5.2030 |
| 567 | 0.1590 | 0.05648 | 0.4564 | 1.0750 | 3.4250 |
| 568 | 0.2397 | 0.07016 | 0.7260 | 1.5950 | 5.7720 |
| 569 | 0.1587 | 0.05884 | 0.3857 | 1.4280 | 2.5480 |

| | area_se | smoothness_se | compactness_se | concavity_se | concave.points_se |
|----|---------|---------------|----------------|--------------|-------------------|
| 1 | 153.400 | 0.006399 | 0.049040 | 0.0537300 | 0.015870 |
| 2 | 74.080 | 0.005225 | 0.013080 | 0.0186000 | 0.013400 |
| 3 | 94.030 | 0.006150 | 0.040060 | 0.0383200 | 0.020580 |
| 4 | 27.230 | 0.009110 | 0.074580 | 0.0566100 | 0.018670 |
| 5 | 94.440 | 0.011490 | 0.024610 | 0.0568800 | 0.018850 |
| 6 | 27.190 | 0.007510 | 0.033450 | 0.0367200 | 0.011370 |
| 7 | 53.910 | 0.004314 | 0.013820 | 0.0225400 | 0.010390 |
| 8 | 50.960 | 0.008805 | 0.030290 | 0.0248800 | 0.014480 |
| 9 | 24.320 | 0.005731 | 0.035020 | 0.0355300 | 0.012260 |
| 10 | 23.940 | 0.007149 | 0.072170 | 0.0774300 | 0.014320 |
| 11 | 40.510 | 0.004029 | 0.009269 | 0.0110100 | 0.007591 |
| 12 | 54.160 | 0.005771 | 0.040610 | 0.0279100 | 0.012820 |
| 13 | 116.200 | 0.003139 | 0.082970 | 0.0889000 | 0.040900 |
| 14 | 36.580 | 0.009769 | 0.031260 | 0.0505100 | 0.019920 |
| 15 | 19.210 | 0.006429 | 0.059360 | 0.0550100 | 0.016280 |
| 16 | 32.550 | 0.005607 | 0.042400 | 0.0474100 | 0.010900 |
| 17 | 45.400 | 0.005718 | 0.011620 | 0.0199800 | 0.011090 |
| 18 | 54.180 | 0.007026 | 0.025010 | 0.0318800 | 0.012970 |
| 19 | 112.400 | 0.006494 | 0.018930 | 0.0339100 | 0.015210 |
| 20 | 23.560 | 0.008462 | 0.014600 | 0.0238700 | 0.013150 |
| 21 | 14.670 | 0.004097 | 0.018980 | 0.0169800 | 0.006490 |
| 22 | 15.700 | 0.009606 | 0.014320 | 0.0198500 | 0.014210 |

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|----|---------|----------|----------|-----------|----------|
| 23 | 44.910 | 0.006789 | 0.053280 | 0.0644600 | 0.022520 |
| 24 | 93.990 | 0.004728 | 0.012590 | 0.0171500 | 0.010380 |
| 25 | 102.600 | 0.006048 | 0.018820 | 0.0274100 | 0.011300 |
| 26 | 111.400 | 0.008029 | 0.037990 | 0.0373200 | 0.023970 |
| 27 | 21.050 | 0.004452 | 0.030550 | 0.0268100 | 0.013520 |
| 28 | 93.540 | 0.010750 | 0.027220 | 0.0508100 | 0.019110 |
| 29 | 43.500 | 0.005233 | 0.030570 | 0.0357600 | 0.010830 |
| 30 | 61.100 | 0.005627 | 0.030330 | 0.0340700 | 0.013540 |
| 31 | 105.000 | 0.006248 | 0.033740 | 0.0519600 | 0.011580 |
| 32 | 41.000 | 0.005551 | 0.034140 | 0.0420500 | 0.010440 |
| 33 | 67.780 | 0.008268 | 0.030820 | 0.0504200 | 0.011120 |
| 34 | 68.170 | 0.005015 | 0.033180 | 0.0349700 | 0.009643 |
| 35 | 35.030 | 0.004185 | 0.028680 | 0.0266400 | 0.009067 |
| 36 | 45.190 | 0.005776 | 0.024990 | 0.0369500 | 0.011950 |
| 37 | 24.910 | 0.005878 | 0.029950 | 0.0481500 | 0.011610 |
| 38 | 14.160 | 0.004352 | 0.004899 | 0.0134300 | 0.011640 |
| 39 | 106.000 | 0.006883 | 0.010940 | 0.0181800 | 0.019170 |
| 40 | 18.520 | 0.005367 | 0.022390 | 0.0304900 | 0.012620 |
| 41 | 20.530 | 0.003280 | 0.011020 | 0.0139000 | 0.006881 |
| 42 | 16.970 | 0.008064 | 0.017640 | 0.0259500 | 0.010370 |
| 43 | 104.900 | 0.006548 | 0.100600 | 0.0972300 | 0.026380 |
| 44 | 31.330 | 0.005072 | 0.021470 | 0.0218500 | 0.009560 |
| 45 | 14.490 | 0.003350 | 0.013840 | 0.0145200 | 0.006853 |
| 46 | 71.560 | 0.006294 | 0.039940 | 0.0555400 | 0.016950 |
| 47 | 8.205 | 0.008968 | 0.016460 | 0.0158800 | 0.005917 |
| 48 | 24.250 | 0.006532 | 0.023360 | 0.0290500 | 0.012150 |
| 49 | 19.870 | 0.005488 | 0.014270 | 0.0232200 | 0.005660 |
| 50 | 20.200 | 0.004455 | 0.013820 | 0.0209500 | 0.011840 |
| 51 | 28.470 | 0.005857 | 0.009758 | 0.0116800 | 0.007445 |
| 52 | 14.550 | 0.004477 | 0.011770 | 0.0107900 | 0.007956 |
| 53 | 17.470 | 0.007210 | 0.008380 | 0.0131100 | 0.008000 |
| 54 | 98.810 | 0.003899 | 0.029610 | 0.0281700 | 0.009222 |
| 55 | 29.910 | 0.004675 | 0.010300 | 0.0160300 | 0.009222 |
| 56 | 23.470 | 0.008328 | 0.008722 | 0.0134900 | 0.008670 |
| 57 | 102.500 | 0.006458 | 0.023060 | 0.0294500 | 0.015380 |
| 58 | 40.090 | 0.003659 | 0.028550 | 0.0257200 | 0.012720 |
| 59 | 32.960 | 0.007491 | 0.008593 | 0.0006920 | 0.004167 |
| 60 | 8.322 | 0.010110 | 0.010550 | 0.0198100 | 0.005742 |
| 61 | 34.620 | 0.007514 | 0.010990 | 0.0076650 | 0.008193 |
| 62 | 18.390 | 0.011930 | 0.031620 | 0.0300000 | 0.009259 |
| 63 | 60.780 | 0.009407 | 0.070560 | 0.0689900 | 0.018480 |
| 64 | 23.520 | 0.008738 | 0.039380 | 0.0431200 | 0.015600 |
| 65 | 36.460 | 0.007781 | 0.026480 | 0.0297300 | 0.012900 |

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|-----|---------|----------|----------|-----------|----------|
| 66 | 35.240 | 0.006703 | 0.023100 | 0.0231500 | 0.011840 |
| 67 | 14.200 | 0.010520 | 0.017550 | 0.0171400 | 0.009333 |
| 68 | 18.150 | 0.009282 | 0.009216 | 0.0206300 | 0.008965 |
| 69 | 17.670 | 0.009549 | 0.086060 | 0.3038000 | 0.033220 |
| 70 | 18.330 | 0.007962 | 0.005612 | 0.0158500 | 0.008662 |
| 71 | 96.050 | 0.004444 | 0.016520 | 0.0226900 | 0.013700 |
| 72 | 25.440 | 0.017210 | 0.093680 | 0.0567100 | 0.017660 |
| 73 | 69.470 | 0.005820 | 0.056160 | 0.0425200 | 0.011270 |
| 74 | 23.350 | 0.004717 | 0.020650 | 0.0175900 | 0.009206 |
| 75 | 19.680 | 0.004854 | 0.018190 | 0.0182600 | 0.007965 |
| 76 | 79.250 | 0.010820 | 0.022030 | 0.0350000 | 0.018090 |
| 77 | 32.650 | 0.013400 | 0.028390 | 0.0116200 | 0.008239 |
| 78 | 134.800 | 0.007940 | 0.058390 | 0.0465800 | 0.020700 |
| 79 | 116.400 | 0.010380 | 0.068350 | 0.1091000 | 0.025930 |
| 80 | 20.350 | 0.005293 | 0.016610 | 0.0207100 | 0.008179 |
| 81 | 24.620 | 0.010370 | 0.017060 | 0.0258600 | 0.007506 |
| 82 | 12.960 | 0.006794 | 0.035750 | 0.0398000 | 0.013830 |
| 83 | 120.000 | 0.008166 | 0.056930 | 0.0573000 | 0.020300 |
| 84 | 67.100 | 0.007545 | 0.060500 | 0.0213400 | 0.018430 |
| 85 | 16.160 | 0.005969 | 0.018120 | 0.0200700 | 0.007027 |
| 86 | 80.600 | 0.006471 | 0.016490 | 0.0280600 | 0.014200 |
| 87 | 38.870 | 0.009369 | 0.029830 | 0.0537100 | 0.017610 |
| 88 | 57.650 | 0.003872 | 0.018420 | 0.0371000 | 0.012000 |
| 89 | 20.950 | 0.007112 | 0.024930 | 0.0270300 | 0.012930 |
| 90 | 42.760 | 0.005508 | 0.044120 | 0.0443600 | 0.016230 |
| 91 | 33.760 | 0.004868 | 0.018180 | 0.0112100 | 0.008606 |
| 92 | 29.440 | 0.009882 | 0.024440 | 0.0453100 | 0.017630 |
| 93 | 36.350 | 0.004481 | 0.010380 | 0.0135800 | 0.010820 |
| 94 | 25.220 | 0.005884 | 0.014910 | 0.0187200 | 0.009366 |
| 95 | 47.140 | 0.009250 | 0.037150 | 0.0486700 | 0.018510 |
| 96 | 87.870 | 0.006016 | 0.034820 | 0.0423200 | 0.012690 |
| 97 | 24.440 | 0.005433 | 0.011790 | 0.0113100 | 0.015190 |
| 98 | 20.050 | 0.011130 | 0.014630 | 0.0053080 | 0.005250 |
| 99 | 15.750 | 0.006153 | 0.013300 | 0.0169300 | 0.006884 |
| 100 | 26.850 | 0.008005 | 0.028950 | 0.0332100 | 0.014240 |
| 101 | 43.140 | 0.005872 | 0.014880 | 0.0264700 | 0.009921 |
| 102 | 9.833 | 0.010190 | 0.010840 | 0.0000000 | 0.000000 |
| 103 | 14.680 | 0.005080 | 0.006098 | 0.0106900 | 0.006797 |
| 104 | 11.770 | 0.009058 | 0.021960 | 0.0302900 | 0.011120 |
| 105 | 23.130 | 0.007595 | 0.022190 | 0.0288000 | 0.008614 |
| 106 | 34.660 | 0.007162 | 0.029120 | 0.0547300 | 0.013880 |
| 107 | 20.620 | 0.008540 | 0.023100 | 0.0294500 | 0.013980 |
| 108 | 9.227 | 0.003457 | 0.010470 | 0.0116700 | 0.005558 |

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|-----|---------|----------|----------|-----------|----------|
| 109 | 170.000 | 0.006515 | 0.086680 | 0.1040000 | 0.024800 |
| 110 | 16.410 | 0.009113 | 0.015570 | 0.0244300 | 0.006435 |
| 111 | 22.870 | 0.013850 | 0.029320 | 0.0272200 | 0.010230 |
| 112 | 20.480 | 0.012910 | 0.040420 | 0.0510100 | 0.022950 |
| 113 | 29.250 | 0.005298 | 0.074460 | 0.1435000 | 0.022920 |
| 114 | 19.910 | 0.011880 | 0.037470 | 0.0459100 | 0.015440 |
| 115 | 8.966 | 0.008261 | 0.022130 | 0.0325900 | 0.010400 |
| 116 | 24.790 | 0.007803 | 0.025070 | 0.0183500 | 0.007711 |
| 117 | 16.940 | 0.018350 | 0.067600 | 0.0926300 | 0.023080 |
| 118 | 41.180 | 0.006985 | 0.025630 | 0.0301100 | 0.012710 |
| 119 | 58.630 | 0.008699 | 0.039760 | 0.0595000 | 0.013900 |
| 120 | 54.040 | 0.004024 | 0.008422 | 0.0229100 | 0.009863 |
| 121 | 10.500 | 0.006040 | 0.015290 | 0.0151400 | 0.006460 |
| 122 | 90.470 | 0.008102 | 0.021010 | 0.0334200 | 0.016010 |
| 123 | 233.000 | 0.023330 | 0.098060 | 0.1278000 | 0.018220 |
| 124 | 24.190 | 0.003818 | 0.012760 | 0.0288200 | 0.012000 |
| 125 | 14.660 | 0.005919 | 0.032700 | 0.0495700 | 0.010380 |
| 126 | 17.910 | 0.004599 | 0.009169 | 0.0091270 | 0.004814 |
| 127 | 19.830 | 0.004088 | 0.011740 | 0.0179600 | 0.006880 |
| 128 | 81.230 | 0.004428 | 0.027310 | 0.0404000 | 0.013610 |
| 129 | 39.840 | 0.009006 | 0.041850 | 0.0320400 | 0.022580 |
| 130 | 63.330 | 0.005033 | 0.031790 | 0.0475500 | 0.010430 |
| 131 | 15.240 | 0.006773 | 0.024560 | 0.0101800 | 0.008094 |
| 132 | 48.310 | 0.006240 | 0.014840 | 0.0281300 | 0.010930 |
| 133 | 43.680 | 0.004877 | 0.019520 | 0.0221900 | 0.009231 |
| 134 | 27.940 | 0.005217 | 0.015150 | 0.0167800 | 0.012680 |
| 135 | 68.350 | 0.006001 | 0.014220 | 0.0285500 | 0.009148 |
| 136 | 19.870 | 0.007499 | 0.012020 | 0.0233200 | 0.008920 |
| 137 | 34.370 | 0.006578 | 0.013800 | 0.0266200 | 0.013070 |
| 138 | 12.670 | 0.005133 | 0.015210 | 0.0143400 | 0.008602 |
| 139 | 101.900 | 0.010000 | 0.034800 | 0.0657700 | 0.028010 |
| 140 | 26.330 | 0.011270 | 0.034980 | 0.0218700 | 0.019650 |
| 141 | 12.260 | 0.006040 | 0.005656 | 0.0000000 | 0.000000 |
| 142 | 74.080 | 0.006770 | 0.019380 | 0.0306700 | 0.011670 |
| 143 | 21.380 | 0.006664 | 0.017350 | 0.0115800 | 0.009520 |
| 144 | 16.640 | 0.005324 | 0.015630 | 0.0151000 | 0.007584 |
| 145 | 17.740 | 0.006547 | 0.017810 | 0.0201800 | 0.005612 |
| 146 | 25.030 | 0.010170 | 0.047410 | 0.0278900 | 0.011100 |
| 147 | 24.720 | 0.005427 | 0.036330 | 0.0464900 | 0.018430 |
| 148 | 39.430 | 0.005790 | 0.048770 | 0.0530300 | 0.015270 |
| 149 | 21.200 | 0.005706 | 0.022970 | 0.0311400 | 0.014930 |
| 150 | 21.470 | 0.002838 | 0.015920 | 0.0178000 | 0.005828 |
| 151 | 34.780 | 0.007017 | 0.011420 | 0.0194900 | 0.011530 |

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|-----|---------|----------|----------|-----------|----------|
| 152 | 10.210 | 0.012430 | 0.054160 | 0.0775300 | 0.010220 |
| 153 | 49.850 | 0.010970 | 0.095860 | 0.3960000 | 0.052790 |
| 154 | 15.480 | 0.009019 | 0.008985 | 0.0119600 | 0.008232 |
| 155 | 22.790 | 0.008584 | 0.020170 | 0.0304700 | 0.009536 |
| 156 | 16.510 | 0.005518 | 0.015620 | 0.0199400 | 0.007924 |
| 157 | 93.910 | 0.009037 | 0.049540 | 0.0520600 | 0.018410 |
| 158 | 46.610 | 0.003443 | 0.026610 | 0.0305600 | 0.011100 |
| 159 | 13.250 | 0.005528 | 0.009789 | 0.0083420 | 0.006273 |
| 160 | 18.540 | 0.006142 | 0.006134 | 0.0018350 | 0.003576 |
| 161 | 38.340 | 0.009433 | 0.024050 | 0.0416700 | 0.011520 |
| 162 | 119.300 | 0.009406 | 0.030550 | 0.0434400 | 0.027940 |
| 163 | 97.070 | 0.004057 | 0.022770 | 0.0402900 | 0.013030 |
| 164 | 21.550 | 0.011340 | 0.031750 | 0.0312500 | 0.011350 |
| 165 | 97.850 | 0.004910 | 0.025440 | 0.0282200 | 0.016230 |
| 166 | 16.640 | 0.003634 | 0.007983 | 0.0082680 | 0.006432 |
| 167 | 11.480 | 0.007809 | 0.009816 | 0.0109900 | 0.005344 |
| 168 | 67.340 | 0.006123 | 0.024700 | 0.0262600 | 0.016040 |
| 169 | 122.300 | 0.006174 | 0.036340 | 0.0464400 | 0.015690 |
| 170 | 24.280 | 0.005080 | 0.013700 | 0.0072760 | 0.009073 |
| 171 | 17.430 | 0.008045 | 0.011800 | 0.0168300 | 0.012410 |
| 172 | 43.400 | 0.006003 | 0.010630 | 0.0215100 | 0.009443 |
| 173 | 44.640 | 0.005393 | 0.023210 | 0.0430300 | 0.013200 |
| 174 | 19.080 | 0.014960 | 0.021210 | 0.0145300 | 0.015830 |
| 175 | 21.980 | 0.008713 | 0.010170 | 0.0000000 | 0.000000 |
| 176 | 11.360 | 0.009172 | 0.008007 | 0.0000000 | 0.000000 |
| 177 | 27.480 | 0.012860 | 0.088080 | 0.1197000 | 0.024600 |
| 178 | 31.590 | 0.006627 | 0.040940 | 0.0537100 | 0.018130 |
| 179 | 14.340 | 0.003418 | 0.002252 | 0.0015950 | 0.001852 |
| 180 | 21.790 | 0.008534 | 0.006364 | 0.0061800 | 0.007408 |
| 181 | 128.700 | 0.004631 | 0.025370 | 0.0310900 | 0.012410 |
| 182 | 81.460 | 0.004253 | 0.047590 | 0.0387200 | 0.015670 |
| 183 | 40.980 | 0.004626 | 0.022630 | 0.0195400 | 0.009767 |
| 184 | 22.770 | 0.007356 | 0.037280 | 0.0591500 | 0.017120 |
| 185 | 19.530 | 0.003290 | 0.013950 | 0.0177400 | 0.006009 |
| 186 | 26.430 | 0.014390 | 0.012000 | 0.0015970 | 0.002404 |
| 187 | 28.920 | 0.002866 | 0.009181 | 0.0141200 | 0.006719 |
| 188 | 17.860 | 0.006905 | 0.008704 | 0.0197800 | 0.011850 |
| 189 | 14.470 | 0.007831 | 0.008776 | 0.0155600 | 0.006240 |
| 190 | 18.320 | 0.005996 | 0.022120 | 0.0211700 | 0.006433 |
| 191 | 31.720 | 0.007970 | 0.135400 | 0.1166000 | 0.016660 |
| 192 | 53.650 | 0.004571 | 0.017900 | 0.0217600 | 0.017570 |
| 193 | 21.690 | 0.001713 | 0.006736 | 0.0000000 | 0.000000 |
| 194 | 34.440 | 0.009098 | 0.038450 | 0.0376300 | 0.013210 |

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| 195 | 25.200 | 0.008081 | 0.051220 | 0.0555100 | 0.018830 |
| 196 | 15.750 | 0.005298 | 0.015870 | 0.0232100 | 0.008420 |
| 197 | 49.700 | 0.013800 | 0.033480 | 0.0466500 | 0.020600 |
| 198 | 76.360 | 0.005530 | 0.052960 | 0.0611000 | 0.014440 |
| 199 | 54.220 | 0.005524 | 0.036980 | 0.0270600 | 0.012210 |
| 200 | 19.420 | 0.004044 | 0.015970 | 0.0200000 | 0.007303 |
| 201 | 27.240 | 0.007514 | 0.017790 | 0.0140100 | 0.011400 |
| 202 | 40.730 | 0.006090 | 0.025690 | 0.0271300 | 0.013450 |
| 203 | 83.160 | 0.009327 | 0.051210 | 0.0895800 | 0.024650 |
| 204 | 52.720 | 0.008824 | 0.031080 | 0.0311200 | 0.012910 |
| 205 | 30.290 | 0.006953 | 0.019110 | 0.0270100 | 0.010370 |
| 206 | 26.440 | 0.005472 | 0.019190 | 0.0203900 | 0.008260 |
| 207 | 12.330 | 0.009719 | 0.012490 | 0.0079750 | 0.007527 |
| 208 | 68.460 | 0.005038 | 0.015030 | 0.0194600 | 0.011230 |
| 209 | 15.090 | 0.005251 | 0.030410 | 0.0252600 | 0.008304 |
| 210 | 20.000 | 0.004291 | 0.012360 | 0.0184100 | 0.007373 |
| 211 | 111.700 | 0.008124 | 0.036110 | 0.0548900 | 0.027650 |
| 212 | 17.120 | 0.005517 | 0.017270 | 0.0204500 | 0.006747 |
| 213 | 525.600 | 0.013450 | 0.027720 | 0.0638900 | 0.014070 |
| 214 | 58.530 | 0.031130 | 0.085550 | 0.1438000 | 0.039270 |
| 215 | 31.000 | 0.010880 | 0.037100 | 0.0368800 | 0.016270 |
| 216 | 22.690 | 0.005960 | 0.034380 | 0.0390900 | 0.014350 |
| 217 | 21.460 | 0.008872 | 0.041920 | 0.0594600 | 0.017850 |
| 218 | 22.790 | 0.004680 | 0.031200 | 0.0577400 | 0.010710 |
| 219 | 124.400 | 0.006804 | 0.031690 | 0.0344600 | 0.017120 |
| 220 | 109.900 | 0.005539 | 0.026440 | 0.0266400 | 0.010780 |
| 221 | 17.400 | 0.004133 | 0.016950 | 0.0165200 | 0.006659 |
| 222 | 21.030 | 0.005851 | 0.023140 | 0.0254400 | 0.008360 |
| 223 | 15.050 | 0.007899 | 0.014000 | 0.0085340 | 0.007624 |
| 224 | 32.190 | 0.004766 | 0.023740 | 0.0238400 | 0.008637 |
| 225 | 24.680 | 0.006032 | 0.011040 | 0.0225900 | 0.009057 |
| 226 | 48.290 | 0.007089 | 0.014280 | 0.0236000 | 0.012860 |
| 227 | 11.860 | 0.006513 | 0.008061 | 0.0028170 | 0.004972 |
| 228 | 19.880 | 0.004119 | 0.032070 | 0.0364400 | 0.011550 |
| 229 | 18.510 | 0.005169 | 0.022940 | 0.0301600 | 0.008691 |
| 230 | 25.130 | 0.006983 | 0.038580 | 0.0468300 | 0.014990 |
| 231 | 31.980 | 0.005532 | 0.020080 | 0.0305500 | 0.013840 |
| 232 | 8.605 | 0.003653 | 0.016470 | 0.0163300 | 0.003125 |
| 233 | 15.460 | 0.004359 | 0.006813 | 0.0032230 | 0.003419 |
| 234 | 70.010 | 0.005020 | 0.020620 | 0.0345700 | 0.010910 |
| 235 | 12.640 | 0.011640 | 0.010400 | 0.0118600 | 0.009623 |
| 236 | 22.070 | 0.007389 | 0.013830 | 0.0073020 | 0.010040 |
| 237 | 155.800 | 0.006428 | 0.028630 | 0.0449700 | 0.017160 |

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| 238 | 83.500 | 0.007959 | 0.031330 | 0.0425700 | 0.016710 |
| 239 | 29.960 | 0.006307 | 0.028450 | 0.0385000 | 0.010110 |
| 240 | 49.000 | 0.004860 | 0.027850 | 0.0260200 | 0.013740 |
| 241 | 27.190 | 0.006470 | 0.012480 | 0.0181000 | 0.011030 |
| 242 | 9.006 | 0.003265 | 0.004930 | 0.0064930 | 0.003762 |
| 243 | 16.390 | 0.006663 | 0.059140 | 0.0888000 | 0.013140 |
| 244 | 39.930 | 0.004351 | 0.026670 | 0.0337100 | 0.010070 |
| 245 | 60.410 | 0.010610 | 0.032520 | 0.0391500 | 0.015590 |
| 246 | 23.220 | 0.016040 | 0.013860 | 0.0186500 | 0.011330 |
| 247 | 13.560 | 0.006261 | 0.015690 | 0.0307900 | 0.005383 |
| 248 | 16.350 | 0.005501 | 0.055920 | 0.0815800 | 0.013700 |
| 249 | 16.640 | 0.007189 | 0.010350 | 0.0108100 | 0.006245 |
| 250 | 18.620 | 0.006662 | 0.012280 | 0.0210500 | 0.010060 |
| 251 | 137.900 | 0.005283 | 0.039080 | 0.0951800 | 0.018640 |
| 252 | 26.990 | 0.006380 | 0.010650 | 0.0124500 | 0.009175 |
| 253 | 92.810 | 0.008482 | 0.050570 | 0.0680000 | 0.019710 |
| 254 | 33.630 | 0.004757 | 0.015030 | 0.0233200 | 0.012620 |
| 255 | 71.000 | 0.004649 | 0.018000 | 0.0274900 | 0.012670 |
| 256 | 35.740 | 0.006351 | 0.026790 | 0.0311900 | 0.013420 |
| 257 | 106.400 | 0.006356 | 0.047650 | 0.0386300 | 0.015190 |
| 258 | 59.460 | 0.010150 | 0.045880 | 0.0498300 | 0.021270 |
| 259 | 138.500 | 0.012360 | 0.059950 | 0.0823200 | 0.030240 |
| 260 | 23.020 | 0.005345 | 0.025560 | 0.0288900 | 0.010220 |
| 261 | 52.340 | 0.005043 | 0.015780 | 0.0211700 | 0.008185 |
| 262 | 44.410 | 0.005726 | 0.011060 | 0.0124600 | 0.007671 |
| 263 | 90.940 | 0.006717 | 0.059810 | 0.0463800 | 0.021490 |
| 264 | 22.180 | 0.002826 | 0.009105 | 0.0131100 | 0.005174 |
| 265 | 45.420 | 0.004493 | 0.012060 | 0.0204800 | 0.009875 |
| 266 | 199.700 | 0.004551 | 0.014780 | 0.0214300 | 0.009280 |
| 267 | 27.100 | 0.007470 | 0.035810 | 0.0335400 | 0.013650 |
| 268 | 26.760 | 0.005436 | 0.024060 | 0.0309900 | 0.009919 |
| 269 | 18.240 | 0.005518 | 0.021780 | 0.0258900 | 0.006330 |
| 270 | 20.740 | 0.008902 | 0.047850 | 0.0733900 | 0.017450 |
| 271 | 10.770 | 0.003492 | 0.003710 | 0.0048260 | 0.003608 |
| 272 | 13.170 | 0.006472 | 0.011220 | 0.0128200 | 0.008849 |
| 273 | 156.800 | 0.005687 | 0.049600 | 0.0632900 | 0.015610 |
| 274 | 16.390 | 0.013800 | 0.010670 | 0.0083470 | 0.009472 |
| 275 | 45.810 | 0.005444 | 0.011690 | 0.0162200 | 0.008522 |
| 276 | 48.840 | 0.014180 | 0.014890 | 0.0126700 | 0.019100 |
| 277 | 17.090 | 0.008426 | 0.008998 | 0.0014870 | 0.003333 |
| 278 | 36.740 | 0.007571 | 0.011140 | 0.0262300 | 0.014630 |
| 279 | 22.220 | 0.003741 | 0.005274 | 0.0106500 | 0.005044 |
| 280 | 19.410 | 0.004235 | 0.015410 | 0.0145700 | 0.010430 |

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|-----|---------|----------|----------|-----------|----------|
| 281 | 69.650 | 0.007392 | 0.024490 | 0.0398800 | 0.012930 |
| 282 | 37.830 | 0.008034 | 0.014420 | 0.0151400 | 0.018460 |
| 283 | 53.160 | 0.005654 | 0.021990 | 0.0305900 | 0.014990 |
| 284 | 28.090 | 0.004563 | 0.034810 | 0.0387200 | 0.012090 |
| 285 | 23.290 | 0.006418 | 0.039610 | 0.0792700 | 0.017740 |
| 286 | 22.450 | 0.006383 | 0.008008 | 0.0018600 | 0.002924 |
| 287 | 21.910 | 0.006719 | 0.051560 | 0.0438700 | 0.016330 |
| 288 | 12.680 | 0.004731 | 0.013450 | 0.0165200 | 0.005905 |
| 289 | 34.680 | 0.015740 | 0.082620 | 0.0809900 | 0.034870 |
| 290 | 17.490 | 0.006538 | 0.013950 | 0.0137600 | 0.009924 |
| 291 | 77.110 | 0.007762 | 0.106400 | 0.0996000 | 0.027710 |
| 292 | 24.870 | 0.005332 | 0.021150 | 0.0153600 | 0.011870 |
| 293 | 17.670 | 0.008725 | 0.020030 | 0.0233500 | 0.011320 |
| 294 | 13.880 | 0.007595 | 0.015000 | 0.0141200 | 0.008578 |
| 295 | 13.380 | 0.006064 | 0.011800 | 0.0065640 | 0.007978 |
| 296 | 17.740 | 0.004348 | 0.008153 | 0.0042720 | 0.006829 |
| 297 | 11.090 | 0.003478 | 0.012210 | 0.0107200 | 0.009393 |
| 298 | 49.110 | 0.005596 | 0.010050 | 0.0127200 | 0.014320 |
| 299 | 20.560 | 0.003169 | 0.013770 | 0.0107900 | 0.005243 |
| 300 | 20.560 | 0.010170 | 0.014430 | 0.0186100 | 0.012500 |
| 301 | 133.000 | 0.006056 | 0.032030 | 0.0563800 | 0.017330 |
| 302 | 28.320 | 0.006530 | 0.033690 | 0.0471200 | 0.014030 |
| 303 | 130.800 | 0.007964 | 0.047320 | 0.0764900 | 0.019360 |
| 304 | 10.080 | 0.008875 | 0.009362 | 0.0180800 | 0.009199 |
| 305 | 22.930 | 0.006652 | 0.026520 | 0.0222100 | 0.007807 |
| 306 | 18.210 | 0.006122 | 0.023370 | 0.0159600 | 0.006998 |
| 307 | 15.500 | 0.003632 | 0.007861 | 0.0011280 | 0.002386 |
| 308 | 9.789 | 0.007389 | 0.004883 | 0.0036810 | 0.003472 |
| 309 | 20.390 | 0.003338 | 0.003746 | 0.0020300 | 0.003242 |
| 310 | 33.010 | 0.004148 | 0.004711 | 0.0028310 | 0.004821 |
| 311 | 11.280 | 0.006064 | 0.009110 | 0.0104200 | 0.007638 |
| 312 | 28.900 | 0.005031 | 0.006021 | 0.0053250 | 0.006324 |
| 313 | 25.180 | 0.006494 | 0.027680 | 0.0313700 | 0.010690 |
| 314 | 9.438 | 0.004124 | 0.013400 | 0.0100300 | 0.004667 |
| 315 | 17.810 | 0.020750 | 0.014030 | 0.0000000 | 0.000000 |
| 316 | 12.690 | 0.004928 | 0.003012 | 0.0026200 | 0.003390 |
| 317 | 15.820 | 0.005343 | 0.005767 | 0.0112300 | 0.005051 |
| 318 | 48.900 | 0.004821 | 0.016590 | 0.0240800 | 0.011430 |
| 319 | 24.200 | 0.009845 | 0.065900 | 0.1027000 | 0.025270 |
| 320 | 31.160 | 0.007357 | 0.010790 | 0.0099590 | 0.011200 |
| 321 | 22.680 | 0.010490 | 0.042650 | 0.0400400 | 0.015440 |
| 322 | 74.850 | 0.004536 | 0.013760 | 0.0264500 | 0.012470 |
| 323 | 16.570 | 0.005910 | 0.020160 | 0.0190200 | 0.010110 |

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|-----|---------|----------|----------|-----------|----------|
| 324 | 69.060 | 0.005485 | 0.024310 | 0.0319000 | 0.013690 |
| 325 | 19.010 | 0.005403 | 0.014180 | 0.0105100 | 0.005142 |
| 326 | 17.610 | 0.006809 | 0.009514 | 0.0132900 | 0.006474 |
| 327 | 23.920 | 0.006692 | 0.011320 | 0.0057170 | 0.006627 |
| 328 | 16.970 | 0.004729 | 0.006887 | 0.0011840 | 0.003951 |
| 329 | 44.410 | 0.006697 | 0.020830 | 0.0324800 | 0.013920 |
| 330 | 57.720 | 0.010560 | 0.037560 | 0.0583900 | 0.011860 |
| 331 | 33.270 | 0.005839 | 0.032450 | 0.0371500 | 0.014590 |
| 332 | 20.650 | 0.005727 | 0.032550 | 0.0439300 | 0.009811 |
| 333 | 19.620 | 0.012890 | 0.011040 | 0.0032970 | 0.004967 |
| 334 | 15.070 | 0.005617 | 0.007124 | 0.0009737 | 0.002941 |
| 335 | 13.240 | 0.007881 | 0.008432 | 0.0070040 | 0.006522 |
| 336 | 87.170 | 0.006455 | 0.017970 | 0.0450200 | 0.017440 |
| 337 | 14.410 | 0.005231 | 0.023050 | 0.0311300 | 0.007315 |
| 338 | 88.250 | 0.007548 | 0.038970 | 0.0391400 | 0.018160 |
| 339 | 16.850 | 0.007803 | 0.014490 | 0.0169000 | 0.008043 |
| 340 | 164.100 | 0.006292 | 0.019710 | 0.0358200 | 0.013010 |
| 341 | 32.140 | 0.004577 | 0.030530 | 0.0384000 | 0.012430 |
| 342 | 12.070 | 0.005954 | 0.034710 | 0.0502800 | 0.008510 |
| 343 | 10.800 | 0.007416 | 0.018770 | 0.0275800 | 0.010100 |
| 344 | 67.660 | 0.004756 | 0.033680 | 0.0434500 | 0.018060 |
| 345 | 24.530 | 0.009536 | 0.010970 | 0.0165100 | 0.011210 |
| 346 | 19.330 | 0.017360 | 0.046710 | 0.0261100 | 0.012960 |
| 347 | 18.020 | 0.007180 | 0.010960 | 0.0058320 | 0.005495 |
| 348 | 29.060 | 0.004732 | 0.015060 | 0.0185500 | 0.010670 |
| 349 | 12.250 | 0.009191 | 0.008548 | 0.0094000 | 0.006315 |
| 350 | 26.650 | 0.005800 | 0.024170 | 0.0078160 | 0.010520 |
| 351 | 26.030 | 0.006583 | 0.006991 | 0.0059490 | 0.006296 |
| 352 | 51.220 | 0.009329 | 0.065590 | 0.0995300 | 0.022830 |
| 353 | 153.100 | 0.006369 | 0.042430 | 0.0426600 | 0.015080 |
| 354 | 63.370 | 0.010520 | 0.024310 | 0.0491200 | 0.017460 |
| 355 | 28.840 | 0.005541 | 0.033870 | 0.0450500 | 0.014710 |
| 356 | 27.490 | 0.009853 | 0.042350 | 0.0627100 | 0.019660 |
| 357 | 21.570 | 0.007807 | 0.039320 | 0.0511200 | 0.018760 |
| 358 | 20.740 | 0.005638 | 0.007939 | 0.0052540 | 0.006042 |
| 359 | 30.180 | 0.010930 | 0.028990 | 0.0321400 | 0.015060 |
| 360 | 30.480 | 0.006836 | 0.008982 | 0.0234800 | 0.006565 |
| 361 | 28.300 | 0.005783 | 0.004693 | 0.0007929 | 0.003617 |
| 362 | 20.980 | 0.005498 | 0.020450 | 0.0179500 | 0.006399 |
| 363 | 17.260 | 0.005608 | 0.016460 | 0.0152900 | 0.009997 |
| 364 | 33.580 | 0.007257 | 0.018050 | 0.0183200 | 0.010330 |
| 365 | 13.220 | 0.004394 | 0.012500 | 0.0145100 | 0.005484 |
| 366 | 72.440 | 0.006208 | 0.019060 | 0.0237500 | 0.014610 |

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| 367 | 103.600 | 0.008439 | 0.046740 | 0.0590400 | 0.025360 |
| 368 | 18.570 | 0.005833 | 0.013880 | 0.0200000 | 0.007087 |
| 369 | 224.100 | 0.005568 | 0.011120 | 0.0209600 | 0.011970 |
| 370 | 130.200 | 0.003978 | 0.028210 | 0.0357600 | 0.014710 |
| 371 | 45.500 | 0.005635 | 0.039170 | 0.0607200 | 0.016560 |
| 372 | 17.720 | 0.005012 | 0.014850 | 0.0155100 | 0.009155 |
| 373 | 39.060 | 0.004426 | 0.026750 | 0.0343700 | 0.013430 |
| 374 | 77.020 | 0.006211 | 0.018950 | 0.0268100 | 0.012320 |
| 375 | 14.000 | 0.004230 | 0.015870 | 0.0116900 | 0.006335 |
| 376 | 14.910 | 0.004510 | 0.018120 | 0.0195100 | 0.011960 |
| 377 | 7.228 | 0.008499 | 0.076430 | 0.1535000 | 0.029190 |
| 378 | 14.910 | 0.004942 | 0.012030 | 0.0075080 | 0.005179 |
| 379 | 11.350 | 0.005212 | 0.029840 | 0.0244300 | 0.008356 |
| 380 | 13.990 | 0.007405 | 0.045490 | 0.0458800 | 0.013390 |
| 381 | 16.040 | 0.006635 | 0.017770 | 0.0210100 | 0.011640 |
| 382 | 11.680 | 0.005296 | 0.019030 | 0.0172300 | 0.006960 |
| 383 | 9.549 | 0.005042 | 0.045600 | 0.0430500 | 0.016670 |
| 384 | 19.200 | 0.006715 | 0.037050 | 0.0475700 | 0.010510 |
| 385 | 15.260 | 0.004271 | 0.020730 | 0.0282800 | 0.008468 |
| 386 | 33.010 | 0.008312 | 0.017420 | 0.0338900 | 0.015760 |
| 387 | 19.960 | 0.004405 | 0.030260 | 0.0434400 | 0.010870 |
| 388 | 23.120 | 0.003728 | 0.014150 | 0.0198800 | 0.007016 |
| 389 | 22.970 | 0.010380 | 0.066690 | 0.0947200 | 0.020470 |
| 390 | 70.100 | 0.011240 | 0.040970 | 0.0746900 | 0.034410 |
| 391 | 11.880 | 0.005682 | 0.013650 | 0.0084960 | 0.006929 |
| 392 | 28.850 | 0.015820 | 0.019660 | 0.0000000 | 0.000000 |
| 393 | 66.910 | 0.007269 | 0.029280 | 0.0497200 | 0.016390 |
| 394 | 80.990 | 0.005215 | 0.037260 | 0.0471800 | 0.012880 |
| 395 | 22.220 | 0.008146 | 0.016310 | 0.0184300 | 0.007513 |
| 396 | 12.670 | 0.005371 | 0.012730 | 0.0113200 | 0.009155 |
| 397 | 19.290 | 0.005442 | 0.019570 | 0.0330400 | 0.013670 |
| 398 | 30.570 | 0.005421 | 0.034770 | 0.0454500 | 0.013840 |
| 399 | 12.980 | 0.004259 | 0.014690 | 0.0194000 | 0.004168 |
| 400 | 25.060 | 0.005463 | 0.019640 | 0.0207900 | 0.005398 |
| 401 | 41.510 | 0.007159 | 0.037180 | 0.0616500 | 0.010510 |
| 402 | 18.950 | 0.006175 | 0.012040 | 0.0137600 | 0.005832 |
| 403 | 20.210 | 0.003629 | 0.037130 | 0.0345200 | 0.010650 |
| 404 | 11.360 | 0.002887 | 0.012850 | 0.0161300 | 0.007308 |
| 405 | 30.150 | 0.007702 | 0.008491 | 0.0130700 | 0.010300 |
| 406 | 25.780 | 0.009519 | 0.021340 | 0.0199000 | 0.011550 |
| 407 | 21.830 | 0.003958 | 0.012460 | 0.0183100 | 0.008747 |
| 408 | 41.240 | 0.006011 | 0.044800 | 0.0517500 | 0.013410 |
| 409 | 49.810 | 0.007231 | 0.027720 | 0.0250900 | 0.014800 |

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| 410 | 25.790 | 0.005888 | 0.023100 | 0.0205900 | 0.010750 |
| 411 | 13.660 | 0.005391 | 0.009947 | 0.0116300 | 0.005872 |
| 412 | 13.540 | 0.005158 | 0.009355 | 0.0105600 | 0.007483 |
| 413 | 6.802 | 0.005515 | 0.026740 | 0.0373500 | 0.005128 |
| 414 | 28.510 | 0.004449 | 0.028080 | 0.0331200 | 0.011960 |
| 415 | 45.380 | 0.006831 | 0.014270 | 0.0248900 | 0.009087 |
| 416 | 19.530 | 0.009895 | 0.030530 | 0.0163000 | 0.009276 |
| 417 | 25.170 | 0.014740 | 0.016740 | 0.0136700 | 0.008674 |
| 418 | 176.500 | 0.008198 | 0.038890 | 0.0449300 | 0.021390 |
| 419 | 17.370 | 0.006131 | 0.012630 | 0.0090750 | 0.008231 |
| 420 | 18.990 | 0.006908 | 0.009442 | 0.0069720 | 0.006159 |
| 421 | 20.300 | 0.007278 | 0.020470 | 0.0444700 | 0.008799 |
| 422 | 49.450 | 0.009976 | 0.052440 | 0.0527800 | 0.015800 |
| 423 | 15.890 | 0.005884 | 0.020050 | 0.0263100 | 0.013040 |
| 424 | 19.360 | 0.003980 | 0.028090 | 0.0366900 | 0.012740 |
| 425 | 43.520 | 0.013070 | 0.018850 | 0.0060210 | 0.010520 |
| 426 | 11.600 | 0.005724 | 0.005697 | 0.0020740 | 0.003527 |
| 427 | 20.770 | 0.007364 | 0.038670 | 0.0526300 | 0.012640 |
| 428 | 20.200 | 0.006543 | 0.021480 | 0.0299100 | 0.010450 |
| 429 | 9.704 | 0.005883 | 0.006263 | 0.0093980 | 0.006189 |
| 430 | 23.240 | 0.007337 | 0.011740 | 0.0053830 | 0.005623 |
| 431 | 24.190 | 0.006965 | 0.062130 | 0.0792600 | 0.022340 |
| 432 | 15.430 | 0.010000 | 0.032950 | 0.0486100 | 0.011670 |
| 433 | 52.490 | 0.009087 | 0.027150 | 0.0554600 | 0.019100 |
| 434 | 103.900 | 0.008074 | 0.040880 | 0.0532100 | 0.018340 |
| 435 | 23.920 | 0.005756 | 0.016650 | 0.0146100 | 0.008281 |
| 436 | 18.850 | 0.005314 | 0.017910 | 0.0218500 | 0.009567 |
| 437 | 26.500 | 0.005910 | 0.013620 | 0.0070660 | 0.006502 |
| 438 | 32.740 | 0.007976 | 0.012950 | 0.0160800 | 0.009046 |
| 439 | 29.630 | 0.005836 | 0.010950 | 0.0058120 | 0.007039 |
| 440 | 19.250 | 0.004837 | 0.009238 | 0.0092130 | 0.010760 |
| 441 | 18.150 | 0.008565 | 0.046380 | 0.0643000 | 0.017680 |
| 442 | 58.380 | 0.008109 | 0.043080 | 0.0494200 | 0.017420 |
| 443 | 29.340 | 0.006432 | 0.011560 | 0.0077410 | 0.005657 |
| 444 | 13.120 | 0.010720 | 0.013310 | 0.0199300 | 0.011110 |
| 445 | 35.770 | 0.004117 | 0.015600 | 0.0297500 | 0.009753 |
| 446 | 19.390 | 0.008320 | 0.020250 | 0.0233400 | 0.016650 |
| 447 | 43.950 | 0.004714 | 0.020150 | 0.0369700 | 0.011100 |
| 448 | 19.750 | 0.004796 | 0.011710 | 0.0175800 | 0.006897 |
| 449 | 23.040 | 0.004147 | 0.020480 | 0.0337900 | 0.008848 |
| 450 | 81.890 | 0.005467 | 0.020750 | 0.0318500 | 0.014660 |
| 451 | 20.240 | 0.006854 | 0.060630 | 0.0666300 | 0.015530 |
| 452 | 56.180 | 0.011900 | 0.019290 | 0.0490700 | 0.014990 |

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| 453 | 13.860 | 0.007334 | 0.025890 | 0.0294100 | 0.009166 |
| 454 | 25.700 | 0.006133 | 0.012510 | 0.0161500 | 0.011360 |
| 455 | 13.320 | 0.003888 | 0.008539 | 0.0125600 | 0.006888 |
| 456 | 28.930 | 0.005841 | 0.012460 | 0.0079360 | 0.009128 |
| 457 | 23.130 | 0.009861 | 0.024180 | 0.0427500 | 0.009215 |
| 458 | 17.580 | 0.005768 | 0.008082 | 0.0151000 | 0.006451 |
| 459 | 21.190 | 0.006054 | 0.008974 | 0.0056810 | 0.006336 |
| 460 | 11.280 | 0.006588 | 0.012700 | 0.0145000 | 0.006104 |
| 461 | 115.200 | 0.008740 | 0.022190 | 0.0272100 | 0.014580 |
| 462 | 542.200 | 0.007650 | 0.053740 | 0.0805500 | 0.025980 |
| 463 | 20.520 | 0.005356 | 0.016790 | 0.0197100 | 0.006370 |
| 464 | 12.890 | 0.006709 | 0.017010 | 0.0208000 | 0.007497 |
| 465 | 16.890 | 0.005969 | 0.014930 | 0.0156400 | 0.008463 |
| 466 | 23.810 | 0.004929 | 0.066570 | 0.0768300 | 0.013680 |
| 467 | 27.400 | 0.007295 | 0.031790 | 0.0461500 | 0.012540 |
| 468 | 20.980 | 0.010980 | 0.012570 | 0.0103100 | 0.003934 |
| 469 | 104.900 | 0.006766 | 0.070250 | 0.0659100 | 0.023110 |
| 470 | 27.850 | 0.014590 | 0.032060 | 0.0496100 | 0.018410 |
| 471 | 22.730 | 0.007501 | 0.019890 | 0.0271400 | 0.009883 |
| 472 | 44.960 | 0.007517 | 0.015550 | 0.0146500 | 0.011830 |
| 473 | 23.310 | 0.003271 | 0.017700 | 0.0231000 | 0.008399 |
| 474 | 35.130 | 0.007339 | 0.008243 | 0.0000000 | 0.000000 |
| 475 | 9.597 | 0.004474 | 0.030930 | 0.0275700 | 0.006691 |
| 476 | 11.640 | 0.004873 | 0.017960 | 0.0331800 | 0.008360 |
| 477 | 31.010 | 0.004107 | 0.032880 | 0.0282100 | 0.013500 |
| 478 | 14.030 | 0.003308 | 0.013150 | 0.0099040 | 0.004832 |
| 479 | 14.340 | 0.004957 | 0.021140 | 0.0415600 | 0.008038 |
| 480 | 33.120 | 0.009197 | 0.054700 | 0.0807900 | 0.022150 |
| 481 | 16.260 | 0.004911 | 0.016660 | 0.0139700 | 0.005161 |
| 482 | 28.410 | 0.003704 | 0.010820 | 0.0153000 | 0.006275 |
| 483 | 12.840 | 0.004450 | 0.014520 | 0.0133400 | 0.008791 |
| 484 | 20.640 | 0.003245 | 0.008186 | 0.0169800 | 0.009233 |
| 485 | 13.870 | 0.006034 | 0.018200 | 0.0333600 | 0.010670 |
| 486 | 30.190 | 0.007234 | 0.074710 | 0.1114000 | 0.027210 |
| 487 | 19.980 | 0.003535 | 0.013930 | 0.0180000 | 0.006144 |
| 488 | 67.740 | 0.005288 | 0.028330 | 0.0425600 | 0.011760 |
| 489 | 27.570 | 0.008998 | 0.012920 | 0.0185100 | 0.011670 |
| 490 | 22.950 | 0.002667 | 0.014460 | 0.0142300 | 0.005297 |
| 491 | 18.040 | 0.005096 | 0.012050 | 0.0094100 | 0.004551 |
| 492 | 50.950 | 0.004369 | 0.008274 | 0.0115300 | 0.007437 |
| 493 | 89.740 | 0.007997 | 0.027000 | 0.0373700 | 0.016480 |
| 494 | 24.600 | 0.010390 | 0.010030 | 0.0064160 | 0.007895 |
| 495 | 26.070 | 0.007802 | 0.020520 | 0.0134100 | 0.005564 |

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| 496 | 21.840 | 0.005415 | 0.013710 | 0.0215300 | 0.011830 |
| 497 | 18.400 | 0.005704 | 0.025020 | 0.0263600 | 0.010320 |
| 498 | 11.910 | 0.003796 | 0.013710 | 0.0134600 | 0.007096 |
| 499 | 95.770 | 0.007974 | 0.032140 | 0.0443500 | 0.015730 |
| 500 | 75.090 | 0.006666 | 0.027910 | 0.0406200 | 0.014790 |
| 501 | 34.840 | 0.004123 | 0.018190 | 0.0199600 | 0.010040 |
| 502 | 39.050 | 0.009680 | 0.038560 | 0.0347600 | 0.016160 |
| 503 | 18.490 | 0.009702 | 0.015670 | 0.0257500 | 0.011610 |
| 504 | 180.200 | 0.005753 | 0.033560 | 0.0397600 | 0.021560 |
| 505 | 20.040 | 0.009783 | 0.045420 | 0.0348300 | 0.021880 |
| 506 | 17.670 | 0.021770 | 0.048880 | 0.0518900 | 0.014500 |
| 507 | 12.580 | 0.006272 | 0.021980 | 0.0396600 | 0.009894 |
| 508 | 12.300 | 0.012620 | 0.023480 | 0.0180000 | 0.012850 |
| 509 | 20.670 | 0.007394 | 0.012030 | 0.0247000 | 0.014310 |
| 510 | 32.520 | 0.009538 | 0.049400 | 0.0601900 | 0.020410 |
| 511 | 13.040 | 0.006982 | 0.039160 | 0.0401700 | 0.015280 |
| 512 | 20.720 | 0.006708 | 0.011970 | 0.0148200 | 0.010560 |
| 513 | 33.670 | 0.005414 | 0.022650 | 0.0345200 | 0.013340 |
| 514 | 37.110 | 0.004953 | 0.018120 | 0.0303500 | 0.008648 |
| 515 | 38.490 | 0.004952 | 0.016300 | 0.0296700 | 0.009423 |
| 516 | 18.190 | 0.008577 | 0.016410 | 0.0209900 | 0.011070 |
| 517 | 67.360 | 0.006176 | 0.018770 | 0.0291300 | 0.010460 |
| 518 | 59.700 | 0.005089 | 0.023030 | 0.0305200 | 0.011780 |
| 519 | 34.370 | 0.005273 | 0.023290 | 0.0140500 | 0.012440 |
| 520 | 28.620 | 0.007509 | 0.015610 | 0.0197700 | 0.009199 |
| 521 | 19.630 | 0.015460 | 0.025400 | 0.0219700 | 0.015800 |
| 522 | 139.900 | 0.004989 | 0.032120 | 0.0357100 | 0.015970 |
| 523 | 9.332 | 0.004200 | 0.005900 | 0.0038460 | 0.004065 |
| 524 | 26.450 | 0.006739 | 0.022510 | 0.0208600 | 0.013520 |
| 525 | 15.240 | 0.008732 | 0.020420 | 0.0106200 | 0.006801 |
| 526 | 7.254 | 0.007897 | 0.017620 | 0.0180100 | 0.007320 |
| 527 | 16.070 | 0.004413 | 0.014430 | 0.0150900 | 0.007369 |
| 528 | 8.955 | 0.003681 | 0.009169 | 0.0087320 | 0.005740 |
| 529 | 44.740 | 0.010040 | 0.032470 | 0.0476300 | 0.028530 |
| 530 | 18.540 | 0.007327 | 0.011530 | 0.0179800 | 0.007986 |
| 531 | 30.660 | 0.006587 | 0.018150 | 0.0173700 | 0.013160 |
| 532 | 15.340 | 0.005251 | 0.017270 | 0.0184000 | 0.005298 |
| 533 | 17.250 | 0.003828 | 0.007228 | 0.0070780 | 0.005077 |
| 534 | 100.400 | 0.004938 | 0.030890 | 0.0409300 | 0.016990 |
| 535 | 10.090 | 0.009501 | 0.033780 | 0.0440100 | 0.013460 |
| 536 | 87.780 | 0.004578 | 0.026160 | 0.0400500 | 0.014210 |
| 537 | 18.540 | 0.006113 | 0.025830 | 0.0464500 | 0.012760 |
| 538 | 20.950 | 0.012880 | 0.034950 | 0.0186500 | 0.017660 |

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|-----|---------|----------|----------|-----------|----------|
| 539 | 19.140 | 0.012660 | 0.009692 | 0.0000000 | 0.000000 |
| 540 | 11.730 | 0.015470 | 0.064570 | 0.0925200 | 0.013640 |
| 541 | 20.860 | 0.012150 | 0.041120 | 0.0555300 | 0.014940 |
| 542 | 23.110 | 0.007138 | 0.046530 | 0.0382900 | 0.011620 |
| 543 | 27.410 | 0.004775 | 0.011720 | 0.0194700 | 0.012690 |
| 544 | 17.850 | 0.004973 | 0.013720 | 0.0149800 | 0.009117 |
| 545 | 23.120 | 0.006298 | 0.021720 | 0.0261500 | 0.009061 |
| 546 | 31.240 | 0.005868 | 0.020990 | 0.0202100 | 0.009064 |
| 547 | 12.970 | 0.007086 | 0.007247 | 0.0101200 | 0.005495 |
| 548 | 7.326 | 0.010270 | 0.030840 | 0.0261300 | 0.010970 |
| 549 | 18.240 | 0.007440 | 0.011230 | 0.0233700 | 0.009615 |
| 550 | 33.000 | 0.008263 | 0.018700 | 0.0127700 | 0.005917 |
| 551 | 20.670 | 0.009579 | 0.011040 | 0.0000000 | 0.000000 |
| 552 | 17.850 | 0.003495 | 0.030510 | 0.0344500 | 0.010240 |
| 553 | 18.760 | 0.008835 | 0.012330 | 0.0132800 | 0.009305 |
| 554 | 17.860 | 0.010940 | 0.018340 | 0.0399600 | 0.012820 |
| 555 | 16.830 | 0.008412 | 0.021530 | 0.0389800 | 0.007620 |
| 556 | 14.460 | 0.012050 | 0.027360 | 0.0480400 | 0.017210 |
| 557 | 16.800 | 0.012910 | 0.022220 | 0.0041740 | 0.007082 |
| 558 | 29.110 | 0.011590 | 0.011240 | 0.0000000 | 0.000000 |
| 559 | 19.540 | 0.004242 | 0.046390 | 0.0657800 | 0.016060 |
| 560 | 16.970 | 0.008200 | 0.029820 | 0.0573800 | 0.012670 |
| 561 | 29.840 | 0.007256 | 0.026780 | 0.0207100 | 0.016260 |
| 562 | 22.810 | 0.007594 | 0.008878 | 0.0000000 | 0.000000 |
| 563 | 22.650 | 0.004625 | 0.048440 | 0.0735900 | 0.016080 |
| 564 | 118.800 | 0.006399 | 0.043100 | 0.0784500 | 0.026240 |
| 565 | 158.700 | 0.010300 | 0.028910 | 0.0519800 | 0.024540 |
| 566 | 99.040 | 0.005769 | 0.024230 | 0.0395000 | 0.016780 |
| 567 | 48.550 | 0.005903 | 0.037310 | 0.0473000 | 0.015570 |
| 568 | 86.220 | 0.006522 | 0.061580 | 0.0711700 | 0.016640 |
| 569 | 19.150 | 0.007189 | 0.004660 | 0.0000000 | 0.000000 |

| | symmetry_se | fractal_dimension_se | radius_worst | texture_worst | perimeter_worst |
|----|-------------|----------------------|--------------|---------------|-----------------|
| 1 | 0.030030 | 0.0061930 | 25.380 | 17.33 | 184.60 |
| 2 | 0.013890 | 0.0035320 | 24.990 | 23.41 | 158.80 |
| 3 | 0.022500 | 0.0045710 | 23.570 | 25.53 | 152.50 |
| 4 | 0.059630 | 0.0092080 | 14.910 | 26.50 | 98.87 |
| 5 | 0.017560 | 0.0051150 | 22.540 | 16.67 | 152.20 |
| 6 | 0.021650 | 0.0050820 | 15.470 | 23.75 | 103.40 |
| 7 | 0.013690 | 0.0021790 | 22.880 | 27.66 | 153.20 |
| 8 | 0.014860 | 0.0054120 | 17.060 | 28.14 | 110.60 |
| 9 | 0.021430 | 0.0037490 | 15.490 | 30.73 | 106.20 |
| 10 | 0.017890 | 0.0100800 | 15.090 | 40.68 | 97.65 |
| 11 | 0.014600 | 0.0030420 | 19.190 | 33.88 | 123.80 |

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|----|----------|-----------|--------|-------|--------|
| 12 | 0.020080 | 0.0041440 | 20.420 | 27.28 | 136.50 |
| 13 | 0.044840 | 0.0128400 | 20.960 | 29.94 | 151.70 |
| 14 | 0.029810 | 0.0030020 | 16.840 | 27.66 | 112.00 |
| 15 | 0.019610 | 0.0080930 | 15.030 | 32.01 | 108.80 |
| 16 | 0.018570 | 0.0054660 | 17.460 | 37.13 | 124.10 |
| 17 | 0.014100 | 0.0020850 | 19.070 | 30.88 | 123.40 |
| 18 | 0.016890 | 0.0041420 | 20.960 | 31.48 | 136.80 |
| 19 | 0.013560 | 0.0019970 | 27.320 | 30.88 | 186.80 |
| 20 | 0.019800 | 0.0023000 | 15.110 | 19.26 | 99.70 |
| 21 | 0.016780 | 0.0024250 | 14.500 | 20.49 | 96.09 |
| 22 | 0.020270 | 0.0029680 | 10.230 | 15.66 | 65.13 |
| 23 | 0.036720 | 0.0043940 | 18.070 | 19.08 | 125.10 |
| 24 | 0.010830 | 0.0019870 | 29.170 | 35.59 | 188.00 |
| 25 | 0.014680 | 0.0028010 | 26.460 | 31.56 | 177.00 |
| 26 | 0.023080 | 0.0074440 | 22.250 | 21.40 | 152.40 |
| 27 | 0.014540 | 0.0037110 | 17.620 | 33.21 | 122.40 |
| 28 | 0.022930 | 0.0042170 | 21.310 | 27.26 | 139.90 |
| 29 | 0.017680 | 0.0029670 | 20.270 | 36.71 | 149.30 |
| 30 | 0.019250 | 0.0037420 | 20.010 | 19.52 | 134.90 |
| 31 | 0.020070 | 0.0045600 | 23.150 | 34.01 | 160.50 |
| 32 | 0.022730 | 0.0056670 | 16.820 | 28.12 | 119.40 |
| 33 | 0.021020 | 0.0038540 | 20.880 | 32.09 | 136.10 |
| 34 | 0.015430 | 0.0038960 | 24.150 | 30.90 | 161.40 |
| 35 | 0.017030 | 0.0038170 | 20.210 | 27.26 | 132.70 |
| 36 | 0.027890 | 0.0026650 | 20.010 | 29.02 | 133.50 |
| 37 | 0.020280 | 0.0040220 | 15.890 | 30.36 | 116.20 |
| 38 | 0.026710 | 0.0017770 | 13.300 | 22.81 | 84.46 |
| 39 | 0.007882 | 0.0017540 | 14.990 | 25.20 | 95.54 |
| 40 | 0.013770 | 0.0031870 | 15.530 | 26.02 | 107.30 |
| 41 | 0.013800 | 0.0012860 | 15.930 | 30.25 | 102.50 |
| 42 | 0.013570 | 0.0030400 | 12.840 | 35.34 | 87.22 |
| 43 | 0.053330 | 0.0076460 | 24.090 | 33.17 | 177.40 |
| 44 | 0.017190 | 0.0033170 | 17.380 | 28.00 | 113.10 |
| 45 | 0.011130 | 0.0017200 | 16.230 | 29.89 | 105.50 |
| 46 | 0.024280 | 0.0035350 | 22.820 | 21.32 | 150.60 |
| 47 | 0.025740 | 0.0025820 | 8.964 | 21.96 | 57.26 |
| 48 | 0.017430 | 0.0036430 | 15.670 | 27.95 | 102.80 |
| 49 | 0.014280 | 0.0024220 | 13.760 | 20.70 | 89.88 |
| 50 | 0.016410 | 0.0019560 | 15.150 | 31.82 | 99.00 |
| 51 | 0.024060 | 0.0017690 | 12.980 | 25.72 | 82.98 |
| 52 | 0.013250 | 0.0025510 | 14.670 | 23.19 | 96.08 |
| 53 | 0.019960 | 0.0026350 | 13.100 | 21.33 | 83.67 |
| 54 | 0.026740 | 0.0051260 | 20.600 | 24.13 | 135.10 |

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|----|----------|-----------|--------|-------|--------|
| 55 | 0.010950 | 0.0016290 | 18.100 | 31.69 | 117.70 |
| 56 | 0.032180 | 0.0023860 | 12.840 | 22.47 | 81.81 |
| 57 | 0.018520 | 0.0026080 | 26.140 | 28.14 | 170.10 |
| 58 | 0.018170 | 0.0041080 | 17.870 | 30.70 | 115.70 |
| 59 | 0.021900 | 0.0029900 | 14.230 | 22.25 | 90.24 |
| 60 | 0.020900 | 0.0027880 | 9.507 | 15.40 | 59.90 |
| 61 | 0.041830 | 0.0059530 | 11.020 | 17.45 | 69.86 |
| 62 | 0.033570 | 0.0030480 | 9.565 | 27.04 | 62.06 |
| 63 | 0.017000 | 0.0061130 | 17.670 | 29.51 | 119.10 |
| 64 | 0.041920 | 0.0058220 | 10.010 | 19.23 | 65.59 |
| 65 | 0.016350 | 0.0036010 | 17.090 | 33.47 | 111.80 |
| 66 | 0.019000 | 0.0032240 | 17.310 | 33.39 | 114.60 |
| 67 | 0.022790 | 0.0042370 | 10.410 | 31.56 | 67.03 |
| 68 | 0.021830 | 0.0021460 | 12.330 | 23.84 | 78.00 |
| 69 | 0.041970 | 0.0095590 | 10.310 | 22.65 | 65.50 |
| 70 | 0.022540 | 0.0019060 | 13.460 | 19.76 | 85.67 |
| 71 | 0.013860 | 0.0016980 | 24.860 | 26.58 | 165.90 |
| 72 | 0.025410 | 0.0219300 | 9.733 | 15.67 | 62.56 |
| 73 | 0.015270 | 0.0062990 | 23.320 | 33.82 | 151.60 |
| 74 | 0.012200 | 0.0031300 | 16.570 | 20.86 | 110.30 |
| 75 | 0.013860 | 0.0023040 | 14.110 | 23.21 | 89.71 |
| 76 | 0.015500 | 0.0019480 | 19.770 | 24.56 | 128.80 |
| 77 | 0.025720 | 0.0061640 | 14.080 | 12.49 | 91.36 |
| 78 | 0.025910 | 0.0070540 | 22.390 | 18.91 | 150.10 |
| 79 | 0.078950 | 0.0059870 | 23.370 | 31.72 | 170.30 |
| 80 | 0.017480 | 0.0028480 | 14.240 | 24.82 | 91.88 |
| 81 | 0.018160 | 0.0039760 | 13.110 | 32.16 | 84.53 |
| 82 | 0.021340 | 0.0046030 | 15.530 | 23.19 | 96.66 |
| 83 | 0.010650 | 0.0058930 | 30.000 | 33.62 | 211.70 |
| 84 | 0.030560 | 0.0103900 | 20.330 | 32.72 | 141.30 |
| 85 | 0.019720 | 0.0026070 | 13.670 | 24.90 | 87.78 |
| 86 | 0.023700 | 0.0037550 | 22.930 | 27.68 | 152.20 |
| 87 | 0.024180 | 0.0032490 | 16.210 | 29.25 | 108.40 |
| 88 | 0.019640 | 0.0033370 | 24.560 | 30.41 | 152.90 |
| 89 | 0.019580 | 0.0044630 | 13.830 | 30.50 | 91.46 |
| 90 | 0.024270 | 0.0048410 | 16.340 | 18.24 | 109.40 |
| 91 | 0.020850 | 0.0028930 | 16.110 | 29.11 | 102.90 |
| 92 | 0.024710 | 0.0021420 | 16.430 | 25.84 | 107.50 |
| 93 | 0.010690 | 0.0014350 | 16.360 | 22.35 | 104.50 |
| 94 | 0.018840 | 0.0018170 | 15.100 | 25.94 | 97.59 |
| 95 | 0.014980 | 0.0035200 | 18.230 | 24.23 | 123.50 |
| 96 | 0.026570 | 0.0044110 | 24.220 | 31.59 | 156.10 |
| 97 | 0.022200 | 0.0034080 | 12.830 | 20.92 | 82.14 |

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|-----|----------|-----------|--------|-------|--------|
| 98 | 0.018010 | 0.0056670 | 10.920 | 26.29 | 68.81 |
| 99 | 0.016510 | 0.0025510 | 13.060 | 17.16 | 82.96 |
| 100 | 0.014620 | 0.0044520 | 16.330 | 30.86 | 109.50 |
| 101 | 0.014650 | 0.0023550 | 16.990 | 35.27 | 108.60 |
| 102 | 0.026590 | 0.0041000 | 7.930 | 19.54 | 50.41 |
| 103 | 0.014470 | 0.0015320 | 13.340 | 32.84 | 84.58 |
| 104 | 0.016090 | 0.0035700 | 10.760 | 26.83 | 72.22 |
| 105 | 0.027100 | 0.0034510 | 11.540 | 23.31 | 74.22 |
| 106 | 0.015470 | 0.0070980 | 16.310 | 22.40 | 106.40 |
| 107 | 0.015650 | 0.0038400 | 13.140 | 29.26 | 85.51 |
| 108 | 0.012510 | 0.0013560 | 13.290 | 27.49 | 85.56 |
| 109 | 0.031120 | 0.0050370 | 28.400 | 28.01 | 206.80 |
| 110 | 0.015680 | 0.0024770 | 13.010 | 29.15 | 83.99 |
| 111 | 0.032810 | 0.0046380 | 11.050 | 21.47 | 71.68 |
| 112 | 0.021440 | 0.0058910 | 13.330 | 25.47 | 89.00 |
| 113 | 0.025660 | 0.0129800 | 15.300 | 23.73 | 107.00 |
| 114 | 0.022870 | 0.0067920 | 11.160 | 22.75 | 72.62 |
| 115 | 0.017080 | 0.0038060 | 9.628 | 19.62 | 64.48 |
| 116 | 0.012780 | 0.0038560 | 13.670 | 26.15 | 87.54 |
| 117 | 0.023840 | 0.0056010 | 9.414 | 17.07 | 63.34 |
| 118 | 0.016020 | 0.0038840 | 18.810 | 27.37 | 127.10 |
| 119 | 0.014950 | 0.0059840 | 20.190 | 30.50 | 130.30 |
| 120 | 0.050140 | 0.0019020 | 20.580 | 27.83 | 129.20 |
| 121 | 0.013440 | 0.0022060 | 12.820 | 15.97 | 83.74 |
| 122 | 0.020450 | 0.0045700 | 22.250 | 24.90 | 145.40 |
| 123 | 0.045470 | 0.0098750 | 26.020 | 23.99 | 180.90 |
| 124 | 0.019100 | 0.0028080 | 15.700 | 15.98 | 102.80 |
| 125 | 0.012080 | 0.0040760 | 14.260 | 22.75 | 91.99 |
| 126 | 0.012470 | 0.0017080 | 15.490 | 23.58 | 100.30 |
| 127 | 0.013230 | 0.0014650 | 16.890 | 35.64 | 113.20 |
| 128 | 0.020300 | 0.0026860 | 22.320 | 25.73 | 148.20 |
| 129 | 0.023530 | 0.0049840 | 16.110 | 18.33 | 105.90 |
| 130 | 0.015780 | 0.0032240 | 22.630 | 33.58 | 148.70 |
| 131 | 0.026620 | 0.0041430 | 13.340 | 17.81 | 91.38 |
| 132 | 0.013970 | 0.0024610 | 19.260 | 26.00 | 124.90 |
| 133 | 0.015350 | 0.0023730 | 19.470 | 31.68 | 129.70 |
| 134 | 0.016690 | 0.0023300 | 17.500 | 19.25 | 114.30 |
| 135 | 0.014920 | 0.0022050 | 22.520 | 31.39 | 145.60 |
| 136 | 0.016470 | 0.0026290 | 14.490 | 33.37 | 92.04 |
| 137 | 0.013590 | 0.0037070 | 13.330 | 25.48 | 86.16 |
| 138 | 0.015010 | 0.0015880 | 12.320 | 22.02 | 79.93 |
| 139 | 0.051680 | 0.0028870 | 18.550 | 21.43 | 121.40 |
| 140 | 0.015800 | 0.0034420 | 11.920 | 15.77 | 76.53 |

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|-----|----------|-----------|--------|-------|--------|
| 141 | 0.022770 | 0.0032200 | 10.620 | 14.10 | 66.53 |
| 142 | 0.018750 | 0.0034340 | 19.920 | 25.27 | 129.00 |
| 143 | 0.022820 | 0.0035260 | 12.780 | 26.76 | 82.66 |
| 144 | 0.021040 | 0.0018870 | 14.480 | 21.82 | 97.17 |
| 145 | 0.016710 | 0.0023600 | 11.950 | 20.72 | 77.79 |
| 146 | 0.031270 | 0.0094230 | 13.150 | 16.51 | 86.26 |
| 147 | 0.056280 | 0.0046350 | 13.740 | 26.38 | 91.93 |
| 148 | 0.033560 | 0.0093680 | 16.250 | 25.47 | 107.10 |
| 149 | 0.014540 | 0.0025280 | 15.850 | 19.85 | 108.60 |
| 150 | 0.013290 | 0.0019760 | 15.340 | 22.46 | 97.19 |
| 151 | 0.029510 | 0.0015330 | 14.160 | 24.11 | 90.82 |
| 152 | 0.023090 | 0.0117800 | 9.092 | 29.72 | 58.08 |
| 153 | 0.035460 | 0.0298400 | 11.020 | 19.49 | 71.04 |
| 154 | 0.023880 | 0.0016190 | 11.990 | 16.30 | 76.25 |
| 155 | 0.027690 | 0.0034790 | 14.770 | 20.50 | 97.67 |
| 156 | 0.017990 | 0.0024840 | 13.590 | 25.22 | 86.60 |
| 157 | 0.017780 | 0.0049680 | 20.470 | 25.11 | 132.90 |
| 158 | 0.015200 | 0.0015190 | 18.220 | 28.07 | 120.30 |
| 159 | 0.014650 | 0.0025300 | 13.140 | 18.41 | 84.08 |
| 160 | 0.016370 | 0.0026650 | 12.360 | 18.20 | 78.07 |
| 161 | 0.033970 | 0.0050610 | 13.320 | 26.21 | 88.91 |
| 162 | 0.031560 | 0.0033620 | 22.030 | 17.81 | 146.60 |
| 163 | 0.016860 | 0.0033180 | 26.730 | 26.39 | 174.90 |
| 164 | 0.018790 | 0.0053480 | 13.580 | 28.68 | 87.36 |
| 165 | 0.019560 | 0.0037400 | 28.010 | 28.22 | 184.20 |
| 166 | 0.019240 | 0.0015200 | 15.980 | 25.82 | 102.30 |
| 167 | 0.012540 | 0.0021200 | 11.600 | 12.02 | 73.66 |
| 168 | 0.020910 | 0.0034930 | 20.050 | 26.30 | 130.70 |
| 169 | 0.011450 | 0.0051200 | 23.140 | 32.33 | 155.30 |
| 170 | 0.013500 | 0.0017060 | 16.110 | 23.00 | 104.60 |
| 171 | 0.019240 | 0.0022480 | 13.500 | 15.64 | 86.97 |
| 172 | 0.015200 | 0.0018680 | 17.980 | 29.87 | 116.60 |
| 173 | 0.017920 | 0.0041680 | 18.790 | 17.04 | 125.00 |
| 174 | 0.030820 | 0.0047850 | 11.350 | 16.82 | 72.01 |
| 175 | 0.032650 | 0.0010020 | 11.540 | 19.20 | 73.20 |
| 176 | 0.027110 | 0.0033990 | 9.262 | 17.04 | 58.36 |
| 177 | 0.038800 | 0.0179200 | 11.260 | 24.39 | 73.07 |
| 178 | 0.016820 | 0.0045840 | 17.790 | 28.45 | 123.50 |
| 179 | 0.016130 | 0.0009683 | 14.000 | 29.02 | 88.18 |
| 180 | 0.010650 | 0.0033510 | 13.630 | 16.15 | 86.70 |
| 181 | 0.015750 | 0.0027470 | 33.120 | 32.85 | 220.80 |
| 182 | 0.017980 | 0.0052950 | 26.680 | 33.48 | 176.50 |
| 183 | 0.015470 | 0.0024300 | 20.110 | 32.82 | 129.30 |

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|-----|----------|-----------|--------|-------|--------|
| 184 | 0.021650 | 0.0047840 | 12.370 | 17.70 | 79.12 |
| 185 | 0.011720 | 0.0025750 | 17.800 | 28.03 | 113.80 |
| 186 | 0.025380 | 0.0034700 | 11.870 | 21.18 | 75.39 |
| 187 | 0.010690 | 0.0010870 | 21.310 | 26.36 | 139.20 |
| 188 | 0.018970 | 0.0016710 | 13.010 | 21.39 | 84.42 |
| 189 | 0.031390 | 0.0019880 | 12.570 | 26.48 | 79.57 |
| 190 | 0.020250 | 0.0017250 | 13.350 | 19.59 | 86.65 |
| 191 | 0.051130 | 0.0117200 | 15.740 | 37.18 | 106.40 |
| 192 | 0.033730 | 0.0058750 | 13.750 | 23.50 | 89.04 |
| 193 | 0.037990 | 0.0016880 | 9.968 | 20.83 | 62.25 |
| 194 | 0.018780 | 0.0056720 | 15.650 | 39.34 | 101.70 |
| 195 | 0.025450 | 0.0043120 | 16.080 | 27.78 | 118.60 |
| 196 | 0.018530 | 0.0021520 | 13.880 | 22.00 | 90.81 |
| 197 | 0.026890 | 0.0043060 | 16.390 | 34.01 | 111.60 |
| 198 | 0.021400 | 0.0050360 | 19.760 | 24.70 | 129.10 |
| 199 | 0.014150 | 0.0033970 | 23.360 | 32.06 | 166.40 |
| 200 | 0.015220 | 0.0019760 | 18.330 | 30.12 | 117.90 |
| 201 | 0.015030 | 0.0033380 | 14.440 | 28.36 | 92.15 |
| 202 | 0.015940 | 0.0026580 | 20.420 | 25.84 | 139.50 |
| 203 | 0.021750 | 0.0051950 | 25.120 | 32.68 | 177.00 |
| 204 | 0.019980 | 0.0045060 | 19.200 | 41.85 | 128.50 |
| 205 | 0.017820 | 0.0035860 | 14.970 | 24.64 | 96.05 |
| 206 | 0.015230 | 0.0028810 | 17.770 | 20.24 | 117.70 |
| 207 | 0.022100 | 0.0024720 | 10.420 | 23.22 | 67.08 |
| 208 | 0.022940 | 0.0025810 | 19.800 | 25.05 | 130.00 |
| 209 | 0.025140 | 0.0041980 | 14.550 | 29.16 | 99.48 |
| 210 | 0.009539 | 0.0016560 | 17.380 | 15.92 | 113.70 |
| 211 | 0.031760 | 0.0023650 | 23.240 | 27.84 | 158.30 |
| 212 | 0.016160 | 0.0029220 | 13.300 | 24.99 | 85.22 |
| 213 | 0.047830 | 0.0044760 | 28.110 | 18.47 | 188.50 |
| 214 | 0.021750 | 0.0125600 | 18.070 | 28.07 | 120.40 |
| 215 | 0.044990 | 0.0047680 | 16.860 | 34.85 | 115.00 |
| 216 | 0.019390 | 0.0045600 | 15.750 | 26.93 | 104.40 |
| 217 | 0.027930 | 0.0047750 | 13.250 | 27.10 | 86.20 |
| 218 | 0.025600 | 0.0046130 | 11.480 | 24.47 | 75.40 |
| 219 | 0.018970 | 0.0040450 | 25.730 | 28.64 | 170.30 |
| 220 | 0.013320 | 0.0022560 | 27.900 | 45.41 | 180.20 |
| 221 | 0.013710 | 0.0027350 | 15.340 | 16.35 | 99.71 |
| 222 | 0.018420 | 0.0029180 | 14.980 | 17.13 | 101.10 |
| 223 | 0.026370 | 0.0037610 | 11.170 | 22.84 | 71.94 |
| 224 | 0.017720 | 0.0031310 | 19.560 | 30.29 | 125.90 |
| 225 | 0.014820 | 0.0024960 | 15.140 | 23.60 | 98.84 |
| 226 | 0.022660 | 0.0014630 | 16.770 | 16.90 | 110.40 |

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|-----|----------|-----------|--------|-------|--------|
| 227 | 0.015020 | 0.0028210 | 11.520 | 19.80 | 73.47 |
| 228 | 0.013910 | 0.0032040 | 16.410 | 19.31 | 114.20 |
| 229 | 0.013650 | 0.0034070 | 14.200 | 31.31 | 90.67 |
| 230 | 0.016800 | 0.0056170 | 15.200 | 30.15 | 105.30 |
| 231 | 0.011770 | 0.0023360 | 19.590 | 24.89 | 133.50 |
| 232 | 0.015370 | 0.0020520 | 12.080 | 33.75 | 79.82 |
| 233 | 0.019160 | 0.0025340 | 12.360 | 41.78 | 78.44 |
| 234 | 0.012980 | 0.0028870 | 24.470 | 37.38 | 162.70 |
| 235 | 0.023830 | 0.0035400 | 10.510 | 19.16 | 65.74 |
| 236 | 0.012630 | 0.0029250 | 15.330 | 30.28 | 98.27 |
| 237 | 0.015900 | 0.0030530 | 31.010 | 34.51 | 206.00 |
| 238 | 0.013410 | 0.0039330 | 24.220 | 26.17 | 161.70 |
| 239 | 0.011850 | 0.0035890 | 15.750 | 40.54 | 102.50 |
| 240 | 0.012260 | 0.0027590 | 22.510 | 44.87 | 141.20 |
| 241 | 0.018980 | 0.0017940 | 14.850 | 19.05 | 94.11 |
| 242 | 0.017200 | 0.0013600 | 13.200 | 20.37 | 83.85 |
| 243 | 0.019950 | 0.0086750 | 12.580 | 27.96 | 87.16 |
| 244 | 0.025980 | 0.0030870 | 15.010 | 26.34 | 98.00 |
| 245 | 0.021860 | 0.0039490 | 21.650 | 30.53 | 144.90 |
| 246 | 0.034760 | 0.0035600 | 11.480 | 29.46 | 73.68 |
| 247 | 0.019620 | 0.0022500 | 13.940 | 27.82 | 88.28 |
| 248 | 0.012660 | 0.0075550 | 14.390 | 17.70 | 105.00 |
| 249 | 0.021580 | 0.0026190 | 12.250 | 35.19 | 77.98 |
| 250 | 0.016770 | 0.0027840 | 12.650 | 21.19 | 80.88 |
| 251 | 0.024010 | 0.0050020 | 25.580 | 27.00 | 165.30 |
| 252 | 0.022920 | 0.0014610 | 12.970 | 22.46 | 83.12 |
| 253 | 0.014670 | 0.0072590 | 25.280 | 25.59 | 159.80 |
| 254 | 0.013940 | 0.0023620 | 19.850 | 25.09 | 130.90 |
| 255 | 0.013650 | 0.0025500 | 25.700 | 24.57 | 163.10 |
| 256 | 0.020620 | 0.0026950 | 16.390 | 22.07 | 108.10 |
| 257 | 0.019360 | 0.0052520 | 25.050 | 36.27 | 178.60 |
| 258 | 0.018840 | 0.0086600 | 17.730 | 22.66 | 119.80 |
| 259 | 0.023370 | 0.0060420 | 19.850 | 31.64 | 143.70 |
| 260 | 0.009947 | 0.0033590 | 18.490 | 49.54 | 126.30 |
| 261 | 0.012820 | 0.0018920 | 24.330 | 39.16 | 162.30 |
| 262 | 0.014110 | 0.0015780 | 19.850 | 31.47 | 128.20 |
| 263 | 0.027470 | 0.0058380 | 20.390 | 27.24 | 137.90 |
| 264 | 0.010130 | 0.0013450 | 17.910 | 31.67 | 115.90 |
| 265 | 0.011440 | 0.0015750 | 21.580 | 29.33 | 140.50 |
| 266 | 0.013670 | 0.0022990 | 32.490 | 47.16 | 214.00 |
| 267 | 0.035040 | 0.0033180 | 11.880 | 22.94 | 78.28 |
| 268 | 0.020300 | 0.0030090 | 14.800 | 30.04 | 97.66 |
| 269 | 0.025930 | 0.0021570 | 13.900 | 23.64 | 89.27 |

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|-----|----------|-----------|--------|-------|--------|
| 270 | 0.027280 | 0.0076100 | 11.690 | 25.21 | 76.51 |
| 271 | 0.015360 | 0.0013810 | 14.910 | 20.65 | 94.44 |
| 272 | 0.016920 | 0.0028170 | 12.320 | 16.18 | 78.27 |
| 273 | 0.019240 | 0.0046140 | 28.190 | 28.18 | 195.90 |
| 274 | 0.017980 | 0.0042610 | 10.750 | 20.88 | 68.09 |
| 275 | 0.014190 | 0.0027510 | 20.920 | 34.69 | 135.10 |
| 276 | 0.026780 | 0.0030020 | 12.400 | 18.99 | 79.46 |
| 277 | 0.023580 | 0.0016270 | 12.200 | 18.99 | 77.37 |
| 278 | 0.019300 | 0.0016760 | 19.960 | 24.30 | 129.00 |
| 279 | 0.013440 | 0.0011260 | 15.500 | 26.10 | 98.91 |
| 280 | 0.015280 | 0.0015930 | 14.980 | 21.74 | 98.37 |
| 281 | 0.014350 | 0.0034460 | 23.720 | 35.90 | 159.80 |
| 282 | 0.029210 | 0.0020050 | 13.310 | 18.26 | 84.70 |
| 283 | 0.016230 | 0.0019650 | 23.790 | 28.65 | 152.40 |
| 284 | 0.013880 | 0.0040810 | 18.550 | 25.09 | 126.90 |
| 285 | 0.018780 | 0.0036960 | 13.900 | 19.69 | 92.12 |
| 286 | 0.025710 | 0.0020150 | 13.500 | 23.08 | 85.56 |
| 287 | 0.018720 | 0.0080150 | 13.240 | 27.29 | 92.20 |
| 288 | 0.016190 | 0.0020810 | 13.620 | 15.54 | 87.40 |
| 289 | 0.034180 | 0.0065170 | 11.860 | 22.33 | 78.27 |
| 290 | 0.034160 | 0.0029280 | 12.360 | 26.14 | 79.29 |
| 291 | 0.040770 | 0.0228600 | 15.770 | 22.13 | 101.70 |
| 292 | 0.015220 | 0.0028150 | 16.250 | 26.19 | 109.10 |
| 293 | 0.026250 | 0.0047260 | 13.740 | 19.93 | 88.81 |
| 294 | 0.017920 | 0.0017840 | 13.060 | 25.75 | 84.35 |
| 295 | 0.013740 | 0.0013920 | 13.500 | 17.48 | 88.54 |
| 296 | 0.021540 | 0.0018020 | 14.670 | 16.93 | 94.17 |
| 297 | 0.029410 | 0.0034280 | 11.370 | 14.82 | 72.42 |
| 298 | 0.015750 | 0.0027580 | 13.360 | 23.39 | 85.10 |
| 299 | 0.011030 | 0.0019570 | 16.220 | 25.26 | 105.80 |
| 300 | 0.034640 | 0.0019710 | 10.930 | 24.22 | 70.10 |
| 301 | 0.018840 | 0.0047870 | 25.930 | 26.24 | 171.10 |
| 302 | 0.027400 | 0.0046510 | 13.460 | 23.07 | 88.13 |
| 303 | 0.027360 | 0.0059280 | 23.680 | 29.43 | 158.80 |
| 304 | 0.017910 | 0.0033170 | 11.060 | 24.54 | 70.76 |
| 305 | 0.018940 | 0.0034110 | 12.680 | 21.61 | 82.69 |
| 306 | 0.031940 | 0.0022110 | 12.440 | 31.62 | 81.39 |
| 307 | 0.013440 | 0.0025850 | 14.410 | 20.45 | 92.00 |
| 308 | 0.027010 | 0.0021530 | 9.699 | 20.07 | 60.90 |
| 309 | 0.014800 | 0.0015660 | 14.970 | 16.94 | 95.48 |
| 310 | 0.014220 | 0.0022730 | 14.730 | 17.40 | 93.96 |
| 311 | 0.023490 | 0.0016610 | 12.610 | 26.55 | 80.92 |
| 312 | 0.014940 | 0.0008948 | 16.460 | 21.75 | 103.70 |

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|-----|----------|-----------|--------|-------|--------|
| 313 | 0.017310 | 0.0043920 | 14.190 | 16.40 | 92.04 |
| 314 | 0.020320 | 0.0019520 | 12.340 | 12.87 | 81.23 |
| 315 | 0.061460 | 0.0068200 | 8.952 | 22.44 | 56.65 |
| 316 | 0.013930 | 0.0013440 | 13.340 | 19.71 | 84.48 |
| 317 | 0.019770 | 0.0009502 | 12.850 | 16.47 | 81.60 |
| 318 | 0.012750 | 0.0024510 | 21.840 | 25.00 | 140.90 |
| 319 | 0.034910 | 0.0078770 | 10.060 | 23.40 | 68.62 |
| 320 | 0.034330 | 0.0029610 | 12.900 | 20.21 | 81.76 |
| 321 | 0.027190 | 0.0075960 | 11.280 | 20.61 | 71.53 |
| 322 | 0.021930 | 0.0015890 | 23.060 | 23.03 | 150.20 |
| 323 | 0.012020 | 0.0031070 | 14.040 | 21.08 | 92.80 |
| 324 | 0.027680 | 0.0033450 | 25.300 | 31.86 | 171.10 |
| 325 | 0.013330 | 0.0020650 | 13.750 | 21.38 | 91.11 |
| 326 | 0.020570 | 0.0017840 | 13.710 | 21.10 | 88.70 |
| 327 | 0.014160 | 0.0024760 | 15.530 | 18.00 | 98.40 |
| 328 | 0.014660 | 0.0017550 | 13.070 | 22.25 | 82.74 |
| 329 | 0.015360 | 0.0027890 | 19.280 | 30.38 | 129.80 |
| 330 | 0.040220 | 0.0061870 | 17.730 | 25.21 | 113.70 |
| 331 | 0.014670 | 0.0031210 | 18.760 | 21.98 | 124.30 |
| 332 | 0.027510 | 0.0045720 | 14.420 | 21.95 | 99.21 |
| 333 | 0.042430 | 0.0019630 | 11.980 | 25.78 | 76.91 |
| 334 | 0.017000 | 0.0020300 | 12.760 | 22.06 | 82.08 |
| 335 | 0.019390 | 0.0022220 | 13.350 | 28.46 | 84.53 |
| 336 | 0.018290 | 0.0037330 | 20.990 | 33.15 | 143.20 |
| 337 | 0.016390 | 0.0057010 | 13.720 | 16.91 | 87.38 |
| 338 | 0.021680 | 0.0044450 | 24.540 | 34.37 | 161.10 |
| 339 | 0.021000 | 0.0027780 | 11.160 | 26.84 | 71.98 |
| 340 | 0.014790 | 0.0031180 | 30.670 | 30.73 | 202.40 |
| 341 | 0.018730 | 0.0033730 | 16.670 | 21.51 | 111.40 |
| 342 | 0.017500 | 0.0040310 | 10.750 | 23.07 | 71.25 |
| 343 | 0.023480 | 0.0029170 | 11.920 | 19.90 | 79.76 |
| 344 | 0.037560 | 0.0032880 | 22.750 | 34.66 | 157.60 |
| 345 | 0.019530 | 0.0031000 | 13.060 | 18.16 | 84.16 |
| 346 | 0.036750 | 0.0067580 | 10.880 | 19.48 | 70.89 |
| 347 | 0.019820 | 0.0027540 | 13.640 | 27.06 | 86.54 |
| 348 | 0.021630 | 0.0027830 | 17.270 | 17.93 | 114.20 |
| 349 | 0.017550 | 0.0030090 | 12.510 | 20.79 | 79.67 |
| 350 | 0.027340 | 0.0031140 | 12.810 | 17.72 | 83.09 |
| 351 | 0.022160 | 0.0026680 | 13.280 | 19.74 | 83.61 |
| 352 | 0.055430 | 0.0073300 | 17.360 | 24.17 | 119.40 |
| 353 | 0.023350 | 0.0033850 | 33.130 | 23.58 | 229.30 |
| 354 | 0.021200 | 0.0048670 | 18.510 | 33.22 | 121.20 |
| 355 | 0.031020 | 0.0048310 | 12.120 | 15.82 | 79.62 |

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|-----|----------|-----------|--------|-------|--------|
| 356 | 0.026390 | 0.0042050 | 13.370 | 22.43 | 89.02 |
| 357 | 0.028600 | 0.0057150 | 14.190 | 24.85 | 94.22 |
| 358 | 0.015440 | 0.0020870 | 15.110 | 25.58 | 96.74 |
| 359 | 0.028370 | 0.0041740 | 9.981 | 17.70 | 65.27 |
| 360 | 0.019420 | 0.0027130 | 12.020 | 25.02 | 75.79 |
| 361 | 0.020430 | 0.0010580 | 13.720 | 20.98 | 86.82 |
| 362 | 0.018290 | 0.0019560 | 14.200 | 29.20 | 92.94 |
| 363 | 0.019090 | 0.0021330 | 13.750 | 25.99 | 87.82 |
| 364 | 0.016940 | 0.0020010 | 18.130 | 25.45 | 117.20 |
| 365 | 0.012910 | 0.0020740 | 14.730 | 21.70 | 93.76 |
| 366 | 0.014450 | 0.0019060 | 24.310 | 26.37 | 161.20 |
| 367 | 0.037100 | 0.0042860 | 24.190 | 33.81 | 160.00 |
| 368 | 0.019380 | 0.0019600 | 14.290 | 24.04 | 93.85 |
| 369 | 0.012630 | 0.0018030 | 30.750 | 26.44 | 199.50 |
| 370 | 0.015180 | 0.0037960 | 27.660 | 25.80 | 195.00 |
| 371 | 0.031970 | 0.0040850 | 19.380 | 31.03 | 129.30 |
| 372 | 0.016470 | 0.0017670 | 16.200 | 15.73 | 104.50 |
| 373 | 0.016750 | 0.0043670 | 22.690 | 21.84 | 152.10 |
| 374 | 0.012760 | 0.0017110 | 25.370 | 23.17 | 166.80 |
| 375 | 0.019430 | 0.0021770 | 14.840 | 20.21 | 99.16 |
| 376 | 0.019340 | 0.0036960 | 16.970 | 19.14 | 113.10 |
| 377 | 0.016170 | 0.0122000 | 10.850 | 22.82 | 76.51 |
| 378 | 0.014420 | 0.0016840 | 14.690 | 35.63 | 97.11 |
| 379 | 0.018180 | 0.0048680 | 14.540 | 19.64 | 97.96 |
| 380 | 0.017380 | 0.0044350 | 13.240 | 32.82 | 91.76 |
| 381 | 0.021080 | 0.0037210 | 12.840 | 20.53 | 84.93 |
| 382 | 0.018800 | 0.0019410 | 12.090 | 20.83 | 79.73 |
| 383 | 0.024700 | 0.0073580 | 12.570 | 28.71 | 87.36 |
| 384 | 0.018380 | 0.0068840 | 14.180 | 23.13 | 95.23 |
| 385 | 0.014610 | 0.0026130 | 14.240 | 17.37 | 96.59 |
| 386 | 0.017400 | 0.0028710 | 15.790 | 31.71 | 102.20 |
| 387 | 0.019210 | 0.0046220 | 13.130 | 19.29 | 87.65 |
| 388 | 0.016470 | 0.0019700 | 15.510 | 19.97 | 99.66 |
| 389 | 0.012190 | 0.0123300 | 12.040 | 18.93 | 79.73 |
| 390 | 0.027680 | 0.0062400 | 20.820 | 30.44 | 142.00 |
| 391 | 0.019380 | 0.0023710 | 11.380 | 15.65 | 73.23 |
| 392 | 0.018650 | 0.0067360 | 10.170 | 22.80 | 64.01 |
| 393 | 0.018520 | 0.0042320 | 21.200 | 29.41 | 142.10 |
| 394 | 0.020450 | 0.0040280 | 26.230 | 28.74 | 172.00 |
| 395 | 0.020150 | 0.0017980 | 13.560 | 25.80 | 88.33 |
| 396 | 0.017190 | 0.0014440 | 14.920 | 25.34 | 96.42 |
| 397 | 0.013150 | 0.0024640 | 14.800 | 27.20 | 97.33 |
| 398 | 0.018690 | 0.0040670 | 13.740 | 21.06 | 90.72 |

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|-----|----------|-----------|--------|-------|--------|
| 399 | 0.011910 | 0.0035370 | 12.680 | 20.35 | 80.79 |
| 400 | 0.014770 | 0.0030710 | 13.450 | 24.49 | 86.00 |
| 401 | 0.015910 | 0.0050990 | 20.800 | 27.78 | 149.60 |
| 402 | 0.010960 | 0.0018570 | 13.800 | 20.14 | 87.64 |
| 403 | 0.026320 | 0.0037050 | 14.130 | 24.61 | 96.31 |
| 404 | 0.018700 | 0.0019720 | 13.860 | 23.02 | 89.69 |
| 405 | 0.029700 | 0.0014320 | 13.180 | 16.85 | 84.11 |
| 406 | 0.020790 | 0.0027010 | 12.400 | 25.58 | 82.76 |
| 407 | 0.015000 | 0.0016210 | 17.710 | 19.58 | 115.90 |
| 408 | 0.026690 | 0.0077310 | 14.400 | 27.01 | 91.63 |
| 409 | 0.014140 | 0.0033360 | 21.080 | 25.41 | 138.10 |
| 410 | 0.025780 | 0.0022670 | 14.100 | 28.88 | 89.00 |
| 411 | 0.013410 | 0.0016590 | 13.050 | 36.32 | 85.07 |
| 412 | 0.017180 | 0.0021980 | 12.410 | 26.44 | 79.93 |
| 413 | 0.019510 | 0.0045830 | 9.965 | 27.99 | 66.61 |
| 414 | 0.019060 | 0.0040150 | 16.760 | 31.55 | 110.20 |
| 415 | 0.031510 | 0.0017500 | 17.260 | 36.91 | 110.10 |
| 416 | 0.022580 | 0.0022720 | 13.050 | 27.21 | 85.09 |
| 417 | 0.030440 | 0.0045900 | 10.850 | 31.24 | 68.73 |
| 418 | 0.020180 | 0.0058150 | 23.170 | 27.65 | 157.10 |
| 419 | 0.017130 | 0.0044140 | 13.650 | 16.92 | 88.12 |
| 420 | 0.026940 | 0.0020600 | 12.360 | 28.92 | 79.26 |
| 421 | 0.018680 | 0.0033390 | 13.070 | 26.98 | 86.43 |
| 422 | 0.026530 | 0.0054440 | 16.460 | 18.34 | 114.10 |
| 423 | 0.018480 | 0.0019820 | 12.640 | 19.67 | 81.93 |
| 424 | 0.015810 | 0.0039560 | 15.140 | 25.50 | 101.40 |
| 425 | 0.031000 | 0.0042250 | 11.210 | 23.17 | 71.79 |
| 426 | 0.014450 | 0.0024110 | 11.110 | 28.94 | 69.92 |
| 427 | 0.021610 | 0.0048300 | 12.130 | 21.57 | 81.41 |
| 428 | 0.018440 | 0.0026900 | 12.760 | 32.04 | 83.69 |
| 429 | 0.020090 | 0.0023770 | 11.680 | 20.29 | 74.35 |
| 430 | 0.019400 | 0.0011800 | 13.820 | 20.96 | 88.87 |
| 431 | 0.014990 | 0.0057840 | 16.350 | 27.57 | 125.40 |
| 432 | 0.021870 | 0.0060050 | 12.880 | 22.91 | 89.61 |
| 433 | 0.024510 | 0.0040050 | 22.030 | 25.07 | 146.00 |
| 434 | 0.023830 | 0.0045150 | 22.660 | 30.93 | 145.30 |
| 435 | 0.015510 | 0.0021680 | 16.310 | 20.54 | 102.30 |
| 436 | 0.012230 | 0.0028460 | 17.040 | 30.80 | 113.90 |
| 437 | 0.022230 | 0.0023780 | 14.450 | 24.38 | 95.14 |
| 438 | 0.020050 | 0.0028300 | 15.660 | 21.58 | 101.20 |
| 439 | 0.020140 | 0.0023260 | 15.630 | 28.01 | 100.90 |
| 440 | 0.011710 | 0.0021040 | 14.910 | 19.31 | 96.53 |
| 441 | 0.015160 | 0.0049760 | 12.360 | 26.87 | 90.14 |

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| 442 | 0.015940 | 0.0037390 | 20.380 | 35.46 | 132.80 |
| 443 | 0.012270 | 0.0025640 | 15.270 | 17.50 | 97.90 |
| 444 | 0.017170 | 0.0044920 | 10.940 | 23.31 | 69.35 |
| 445 | 0.012950 | 0.0024360 | 20.380 | 22.02 | 133.30 |
| 446 | 0.020940 | 0.0036740 | 12.980 | 30.36 | 84.48 |
| 447 | 0.012370 | 0.0025560 | 21.530 | 38.54 | 145.40 |
| 448 | 0.022540 | 0.0019710 | 16.430 | 22.74 | 105.90 |
| 449 | 0.013940 | 0.0023270 | 16.300 | 28.39 | 108.10 |
| 450 | 0.010290 | 0.0022050 | 25.680 | 32.07 | 168.20 |
| 451 | 0.023540 | 0.0089250 | 12.790 | 28.18 | 83.51 |
| 452 | 0.016410 | 0.0018070 | 21.440 | 30.96 | 139.80 |
| 453 | 0.017450 | 0.0043020 | 13.090 | 37.88 | 85.07 |
| 454 | 0.022070 | 0.0035630 | 15.800 | 16.93 | 103.10 |
| 455 | 0.016080 | 0.0016380 | 14.340 | 22.15 | 91.62 |
| 456 | 0.015640 | 0.0029850 | 15.050 | 41.61 | 96.69 |
| 457 | 0.024750 | 0.0021280 | 13.120 | 38.81 | 86.04 |
| 458 | 0.013470 | 0.0018280 | 14.350 | 34.23 | 91.29 |
| 459 | 0.012150 | 0.0015140 | 14.340 | 31.88 | 91.06 |
| 460 | 0.015740 | 0.0022680 | 10.670 | 36.92 | 68.03 |
| 461 | 0.020450 | 0.0044170 | 22.960 | 34.49 | 152.10 |
| 462 | 0.016970 | 0.0045580 | 36.040 | 31.37 | 251.20 |
| 463 | 0.014140 | 0.0018920 | 15.400 | 31.98 | 100.40 |
| 464 | 0.021240 | 0.0027680 | 12.770 | 24.02 | 82.68 |
| 465 | 0.010930 | 0.0016720 | 14.900 | 23.89 | 95.10 |
| 466 | 0.015260 | 0.0081330 | 15.440 | 25.50 | 115.00 |
| 467 | 0.015610 | 0.0032300 | 14.800 | 25.46 | 100.90 |
| 468 | 0.026930 | 0.0029790 | 11.150 | 24.62 | 71.11 |
| 469 | 0.016730 | 0.0113000 | 21.570 | 28.87 | 143.60 |
| 470 | 0.018070 | 0.0052170 | 13.360 | 25.40 | 88.14 |
| 471 | 0.019600 | 0.0039130 | 11.140 | 25.62 | 70.88 |
| 472 | 0.020470 | 0.0038830 | 13.600 | 33.33 | 87.24 |
| 473 | 0.011480 | 0.0023790 | 17.180 | 18.22 | 112.00 |
| 474 | 0.031410 | 0.0031360 | 13.450 | 38.05 | 85.08 |
| 475 | 0.012120 | 0.0046720 | 11.940 | 19.35 | 80.78 |
| 476 | 0.016010 | 0.0022890 | 14.090 | 19.35 | 93.22 |
| 477 | 0.016100 | 0.0027440 | 16.450 | 27.26 | 112.10 |
| 478 | 0.013160 | 0.0020950 | 15.140 | 21.80 | 101.20 |
| 479 | 0.018430 | 0.0036140 | 12.400 | 21.90 | 82.04 |
| 480 | 0.027730 | 0.0063550 | 17.390 | 23.05 | 122.10 |
| 481 | 0.014540 | 0.0018580 | 13.340 | 27.87 | 88.83 |
| 482 | 0.010620 | 0.0022170 | 16.410 | 26.42 | 104.40 |
| 483 | 0.016980 | 0.0027870 | 14.830 | 18.32 | 94.94 |
| 484 | 0.012850 | 0.0015240 | 14.960 | 23.53 | 95.78 |

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| 485 | 0.011750 | 0.0022560 | 17.010 | 14.20 | 112.50 |
| 486 | 0.032320 | 0.0096270 | 13.780 | 21.03 | 97.82 |
| 487 | 0.012540 | 0.0012190 | 16.460 | 25.44 | 106.00 |
| 488 | 0.017170 | 0.0032110 | 23.960 | 30.39 | 153.90 |
| 489 | 0.021520 | 0.0032130 | 13.320 | 21.59 | 86.57 |
| 490 | 0.019610 | 0.0017000 | 19.180 | 26.56 | 127.30 |
| 491 | 0.016080 | 0.0023990 | 14.170 | 31.99 | 92.74 |
| 492 | 0.013020 | 0.0013090 | 19.820 | 18.42 | 127.10 |
| 493 | 0.028970 | 0.0039960 | 21.530 | 26.06 | 143.40 |
| 494 | 0.028690 | 0.0048210 | 13.190 | 16.36 | 83.24 |
| 495 | 0.020860 | 0.0027010 | 14.500 | 28.46 | 95.29 |
| 496 | 0.019590 | 0.0018120 | 16.010 | 28.48 | 103.90 |
| 497 | 0.017590 | 0.0035630 | 14.380 | 22.15 | 95.29 |
| 498 | 0.015360 | 0.0015410 | 14.060 | 24.34 | 92.82 |
| 499 | 0.016170 | 0.0052550 | 22.750 | 22.88 | 146.40 |
| 500 | 0.011170 | 0.0037270 | 23.860 | 30.76 | 163.20 |
| 501 | 0.010550 | 0.0032370 | 16.760 | 20.43 | 109.70 |
| 502 | 0.024340 | 0.0069950 | 16.010 | 32.94 | 106.00 |
| 503 | 0.028010 | 0.0024800 | 13.570 | 21.40 | 86.67 |
| 504 | 0.022010 | 0.0028970 | 30.790 | 23.87 | 211.50 |
| 505 | 0.025420 | 0.0104500 | 10.280 | 16.38 | 69.05 |
| 506 | 0.026320 | 0.0114800 | 10.600 | 18.04 | 69.47 |
| 507 | 0.013200 | 0.0038130 | 13.160 | 24.17 | 85.13 |
| 508 | 0.022200 | 0.0083130 | 11.690 | 20.74 | 76.08 |
| 509 | 0.013440 | 0.0025690 | 17.320 | 17.76 | 109.80 |
| 510 | 0.021050 | 0.0060000 | 17.110 | 36.33 | 117.70 |
| 511 | 0.022600 | 0.0068220 | 12.450 | 17.60 | 81.25 |
| 512 | 0.015800 | 0.0017790 | 15.610 | 17.58 | 101.70 |
| 513 | 0.017050 | 0.0040050 | 16.410 | 29.66 | 113.30 |
| 514 | 0.015390 | 0.0022810 | 16.760 | 17.24 | 108.50 |
| 515 | 0.011520 | 0.0017180 | 17.580 | 28.06 | 113.80 |
| 516 | 0.024340 | 0.0012170 | 12.470 | 23.03 | 79.15 |
| 517 | 0.015590 | 0.0027250 | 21.860 | 26.20 | 142.20 |
| 518 | 0.010570 | 0.0033910 | 23.730 | 25.23 | 160.50 |
| 519 | 0.018160 | 0.0032990 | 15.050 | 24.37 | 99.31 |
| 520 | 0.018050 | 0.0036290 | 14.450 | 21.74 | 93.63 |
| 521 | 0.039970 | 0.0039010 | 10.570 | 17.84 | 67.84 |
| 522 | 0.018790 | 0.0047600 | 29.920 | 26.93 | 205.70 |
| 523 | 0.014870 | 0.0022950 | 11.930 | 26.43 | 76.38 |
| 524 | 0.018700 | 0.0037470 | 15.110 | 25.63 | 99.43 |
| 525 | 0.018240 | 0.0034940 | 11.240 | 22.99 | 74.32 |
| 526 | 0.015920 | 0.0039250 | 9.473 | 18.45 | 63.30 |
| 527 | 0.013540 | 0.0017870 | 15.350 | 25.16 | 101.90 |

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|-----|----------|-----------|--------|-------|--------|
| 528 | 0.011290 | 0.0013660 | 13.610 | 19.27 | 87.22 |
| 529 | 0.017150 | 0.0055280 | 14.620 | 15.38 | 94.52 |
| 530 | 0.019620 | 0.0022340 | 13.450 | 15.77 | 86.92 |
| 531 | 0.018350 | 0.0023180 | 13.500 | 27.98 | 88.52 |
| 532 | 0.014490 | 0.0026710 | 13.350 | 28.81 | 87.00 |
| 533 | 0.010540 | 0.0016970 | 15.850 | 20.20 | 101.60 |
| 534 | 0.028160 | 0.0027190 | 23.230 | 27.15 | 152.00 |
| 535 | 0.013220 | 0.0035340 | 11.620 | 26.51 | 76.43 |
| 536 | 0.019480 | 0.0026890 | 24.300 | 25.48 | 160.20 |
| 537 | 0.014510 | 0.0037560 | 15.290 | 34.27 | 104.30 |
| 538 | 0.015600 | 0.0058240 | 12.980 | 32.19 | 86.12 |
| 539 | 0.028820 | 0.0068720 | 9.077 | 30.92 | 57.17 |
| 540 | 0.021050 | 0.0075510 | 8.678 | 31.89 | 54.49 |
| 541 | 0.018400 | 0.0055120 | 12.260 | 19.68 | 78.78 |
| 542 | 0.020680 | 0.0061110 | 16.220 | 31.73 | 113.50 |
| 543 | 0.018700 | 0.0026260 | 16.510 | 32.29 | 107.40 |
| 544 | 0.017240 | 0.0013430 | 14.370 | 37.17 | 92.48 |
| 545 | 0.014900 | 0.0035990 | 15.050 | 24.75 | 99.17 |
| 546 | 0.020870 | 0.0025830 | 15.350 | 29.09 | 97.58 |
| 547 | 0.015600 | 0.0026060 | 11.250 | 21.77 | 71.12 |
| 548 | 0.022770 | 0.0058900 | 10.830 | 22.04 | 71.08 |
| 549 | 0.022030 | 0.0041540 | 10.930 | 25.59 | 69.10 |
| 550 | 0.024660 | 0.0029770 | 13.030 | 31.45 | 83.90 |
| 551 | 0.030040 | 0.0022280 | 11.660 | 24.77 | 74.08 |
| 552 | 0.029120 | 0.0047230 | 12.020 | 28.26 | 77.80 |
| 553 | 0.018970 | 0.0017260 | 13.870 | 36.00 | 88.10 |
| 554 | 0.037590 | 0.0046230 | 9.845 | 25.05 | 62.86 |
| 555 | 0.016950 | 0.0028010 | 13.890 | 35.74 | 88.84 |
| 556 | 0.018430 | 0.0049380 | 10.840 | 34.91 | 69.57 |
| 557 | 0.025720 | 0.0022780 | 10.650 | 22.88 | 67.88 |
| 558 | 0.030040 | 0.0033240 | 10.490 | 34.24 | 66.50 |
| 559 | 0.016380 | 0.0044060 | 15.480 | 27.27 | 105.90 |
| 560 | 0.014880 | 0.0047380 | 12.480 | 37.16 | 82.28 |
| 561 | 0.020800 | 0.0053040 | 15.300 | 33.17 | 100.20 |
| 562 | 0.019890 | 0.0017730 | 11.920 | 38.30 | 75.19 |
| 563 | 0.021370 | 0.0061420 | 17.520 | 42.79 | 128.70 |
| 564 | 0.020570 | 0.0062130 | 24.290 | 29.41 | 179.10 |
| 565 | 0.011140 | 0.0042390 | 25.450 | 26.40 | 166.10 |
| 566 | 0.018980 | 0.0024980 | 23.690 | 38.25 | 155.00 |
| 567 | 0.013180 | 0.0038920 | 18.980 | 34.12 | 126.70 |
| 568 | 0.023240 | 0.0061850 | 25.740 | 39.42 | 184.60 |
| 569 | 0.026760 | 0.0027830 | 9.456 | 30.37 | 59.16 |

area_worst smoothness_worst compactness_worst concavity_worst

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|----|--------|---------|---------|----------|
| 1 | 2019.0 | 0.16220 | 0.66560 | 0.711900 |
| 2 | 1956.0 | 0.12380 | 0.18660 | 0.241600 |
| 3 | 1709.0 | 0.14440 | 0.42450 | 0.450400 |
| 4 | 567.7 | 0.20980 | 0.86630 | 0.686900 |
| 5 | 1575.0 | 0.13740 | 0.20500 | 0.400000 |
| 6 | 741.6 | 0.17910 | 0.52490 | 0.535500 |
| 7 | 1606.0 | 0.14420 | 0.25760 | 0.378400 |
| 8 | 897.0 | 0.16540 | 0.36820 | 0.267800 |
| 9 | 739.3 | 0.17030 | 0.54010 | 0.539000 |
| 10 | 711.4 | 0.18530 | 1.05800 | 1.105000 |
| 11 | 1150.0 | 0.11810 | 0.15510 | 0.145900 |
| 12 | 1299.0 | 0.13960 | 0.56090 | 0.396500 |
| 13 | 1332.0 | 0.10370 | 0.39030 | 0.363900 |
| 14 | 876.5 | 0.11310 | 0.19240 | 0.232200 |
| 15 | 697.7 | 0.16510 | 0.77250 | 0.694300 |
| 16 | 943.2 | 0.16780 | 0.65770 | 0.702600 |
| 17 | 1138.0 | 0.14640 | 0.18710 | 0.291400 |
| 18 | 1315.0 | 0.17890 | 0.42330 | 0.478400 |
| 19 | 2398.0 | 0.15120 | 0.31500 | 0.537200 |
| 20 | 711.2 | 0.14400 | 0.17730 | 0.239000 |
| 21 | 630.5 | 0.13120 | 0.27760 | 0.189000 |
| 22 | 314.9 | 0.13240 | 0.11480 | 0.088670 |
| 23 | 980.9 | 0.13900 | 0.59540 | 0.630500 |
| 24 | 2615.0 | 0.14010 | 0.26000 | 0.315500 |
| 25 | 2215.0 | 0.18050 | 0.35780 | 0.469500 |
| 26 | 1461.0 | 0.15450 | 0.39490 | 0.385300 |
| 27 | 896.9 | 0.15250 | 0.66430 | 0.553900 |
| 28 | 1403.0 | 0.13380 | 0.21170 | 0.344600 |
| 29 | 1269.0 | 0.16410 | 0.61100 | 0.633500 |
| 30 | 1227.0 | 0.12550 | 0.28120 | 0.248900 |
| 31 | 1670.0 | 0.14910 | 0.42570 | 0.613300 |
| 32 | 888.7 | 0.16370 | 0.57750 | 0.695600 |
| 33 | 1344.0 | 0.16340 | 0.35590 | 0.558800 |
| 34 | 1813.0 | 0.15090 | 0.65900 | 0.609100 |
| 35 | 1261.0 | 0.14460 | 0.58040 | 0.527400 |
| 36 | 1229.0 | 0.15630 | 0.38350 | 0.540900 |
| 37 | 799.6 | 0.14460 | 0.42380 | 0.518600 |
| 38 | 545.9 | 0.09701 | 0.04619 | 0.048330 |
| 39 | 698.8 | 0.09387 | 0.05131 | 0.023980 |
| 40 | 740.4 | 0.16100 | 0.42250 | 0.503000 |
| 41 | 787.9 | 0.10940 | 0.20430 | 0.208500 |
| 42 | 514.0 | 0.19090 | 0.26980 | 0.402300 |
| 43 | 1651.0 | 0.12470 | 0.74440 | 0.724200 |

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|----|--------|---------|---------|----------|
| 44 | 907.2 | 0.15300 | 0.37240 | 0.366400 |
| 45 | 740.7 | 0.15030 | 0.39040 | 0.372800 |
| 46 | 1567.0 | 0.16790 | 0.50900 | 0.734500 |
| 47 | 242.2 | 0.12970 | 0.13570 | 0.068800 |
| 48 | 759.4 | 0.17860 | 0.41660 | 0.500600 |
| 49 | 582.6 | 0.14940 | 0.21560 | 0.305000 |
| 50 | 698.8 | 0.11620 | 0.17110 | 0.228200 |
| 51 | 516.5 | 0.10850 | 0.08615 | 0.055230 |
| 52 | 656.7 | 0.10890 | 0.15820 | 0.105000 |
| 53 | 527.2 | 0.11440 | 0.08906 | 0.092030 |
| 54 | 1321.0 | 0.12800 | 0.22970 | 0.262300 |
| 55 | 1030.0 | 0.13890 | 0.20570 | 0.271200 |
| 56 | 506.2 | 0.12490 | 0.08720 | 0.090760 |
| 57 | 2145.0 | 0.16240 | 0.35110 | 0.387900 |
| 58 | 985.5 | 0.13680 | 0.42900 | 0.358700 |
| 59 | 624.1 | 0.10210 | 0.06191 | 0.001845 |
| 60 | 274.9 | 0.17330 | 0.12390 | 0.116800 |
| 61 | 368.6 | 0.12750 | 0.09866 | 0.021680 |
| 62 | 273.9 | 0.16390 | 0.16980 | 0.090010 |
| 63 | 959.5 | 0.16400 | 0.62470 | 0.692200 |
| 64 | 310.1 | 0.09836 | 0.16780 | 0.139700 |
| 65 | 888.3 | 0.18510 | 0.40610 | 0.402400 |
| 66 | 925.1 | 0.16480 | 0.34160 | 0.302400 |
| 67 | 330.7 | 0.15480 | 0.16640 | 0.094120 |
| 68 | 466.7 | 0.12900 | 0.09148 | 0.144400 |
| 69 | 324.7 | 0.14820 | 0.43650 | 1.252000 |
| 70 | 554.9 | 0.12960 | 0.07061 | 0.103900 |
| 71 | 1866.0 | 0.11930 | 0.23360 | 0.268700 |
| 72 | 284.4 | 0.12070 | 0.24360 | 0.143400 |
| 73 | 1681.0 | 0.15850 | 0.73940 | 0.656600 |
| 74 | 812.4 | 0.14110 | 0.35420 | 0.277900 |
| 75 | 611.1 | 0.11760 | 0.18430 | 0.170300 |
| 76 | 1223.0 | 0.15000 | 0.20450 | 0.282900 |
| 77 | 605.5 | 0.14510 | 0.13790 | 0.085390 |
| 78 | 1610.0 | 0.14780 | 0.56340 | 0.378600 |
| 79 | 1623.0 | 0.16390 | 0.61640 | 0.768100 |
| 80 | 622.1 | 0.12890 | 0.21410 | 0.173100 |
| 81 | 525.1 | 0.15570 | 0.16760 | 0.175500 |
| 82 | 614.9 | 0.15360 | 0.47910 | 0.485800 |
| 83 | 2562.0 | 0.15730 | 0.60760 | 0.647600 |
| 84 | 1298.0 | 0.13920 | 0.28170 | 0.243200 |
| 85 | 567.9 | 0.13770 | 0.20030 | 0.226700 |
| 86 | 1603.0 | 0.13980 | 0.20890 | 0.315700 |

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| 87 | 808.9 | 0.13060 | 0.19760 | 0.334900 |
| 88 | 1623.0 | 0.12490 | 0.32060 | 0.575500 |
| 89 | 574.7 | 0.13040 | 0.24630 | 0.243400 |
| 90 | 803.6 | 0.12770 | 0.30890 | 0.260400 |
| 91 | 803.7 | 0.11150 | 0.17660 | 0.091890 |
| 92 | 830.9 | 0.12570 | 0.19970 | 0.284600 |
| 93 | 830.6 | 0.10060 | 0.12380 | 0.135000 |
| 94 | 699.4 | 0.13390 | 0.17510 | 0.138100 |
| 95 | 1025.0 | 0.15510 | 0.42030 | 0.520300 |
| 96 | 1750.0 | 0.11900 | 0.35390 | 0.409800 |
| 97 | 495.2 | 0.11400 | 0.09358 | 0.049800 |
| 98 | 366.1 | 0.13160 | 0.09473 | 0.020490 |
| 99 | 512.5 | 0.14310 | 0.18510 | 0.192200 |
| 100 | 826.4 | 0.14310 | 0.30260 | 0.319400 |
| 101 | 906.5 | 0.12650 | 0.19430 | 0.316900 |
| 102 | 185.2 | 0.15840 | 0.12020 | 0.000000 |
| 103 | 547.8 | 0.11230 | 0.08862 | 0.114500 |
| 104 | 361.2 | 0.15590 | 0.23020 | 0.264400 |
| 105 | 402.8 | 0.12190 | 0.14860 | 0.079870 |
| 106 | 827.2 | 0.18620 | 0.40990 | 0.637600 |
| 107 | 521.7 | 0.16880 | 0.26600 | 0.287300 |
| 108 | 544.1 | 0.11840 | 0.19630 | 0.193700 |
| 109 | 2360.0 | 0.17010 | 0.69970 | 0.960800 |
| 110 | 518.1 | 0.16990 | 0.21960 | 0.312000 |
| 111 | 367.0 | 0.14670 | 0.17650 | 0.130000 |
| 112 | 527.4 | 0.12870 | 0.22500 | 0.221600 |
| 113 | 709.0 | 0.08949 | 0.41930 | 0.678300 |
| 114 | 374.4 | 0.13000 | 0.20490 | 0.129500 |
| 115 | 284.4 | 0.17240 | 0.23640 | 0.245600 |
| 116 | 583.0 | 0.15000 | 0.23990 | 0.150300 |
| 117 | 270.0 | 0.11790 | 0.18790 | 0.154400 |
| 118 | 1095.0 | 0.18780 | 0.44800 | 0.470400 |
| 119 | 1272.0 | 0.18550 | 0.49250 | 0.735600 |
| 120 | 1261.0 | 0.10720 | 0.12020 | 0.224900 |
| 121 | 510.5 | 0.15480 | 0.23900 | 0.210200 |
| 122 | 1549.0 | 0.15030 | 0.22910 | 0.327200 |
| 123 | 2073.0 | 0.16960 | 0.42440 | 0.580300 |
| 124 | 745.5 | 0.13130 | 0.17880 | 0.256000 |
| 125 | 632.1 | 0.10250 | 0.25310 | 0.330800 |
| 126 | 725.9 | 0.11570 | 0.13500 | 0.081150 |
| 127 | 848.7 | 0.14710 | 0.28840 | 0.379600 |
| 128 | 1538.0 | 0.10210 | 0.22640 | 0.320700 |
| 129 | 762.6 | 0.13860 | 0.28830 | 0.196000 |

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| 130 | 1589.0 | 0.12750 | 0.38610 | 0.567300 |
| 131 | 545.2 | 0.14270 | 0.25850 | 0.099150 |
| 132 | 1156.0 | 0.15460 | 0.23940 | 0.379100 |
| 133 | 1175.0 | 0.13950 | 0.30550 | 0.299200 |
| 134 | 922.8 | 0.12230 | 0.19490 | 0.170900 |
| 135 | 1590.0 | 0.14650 | 0.22750 | 0.396500 |
| 136 | 653.6 | 0.14190 | 0.15230 | 0.217700 |
| 137 | 546.7 | 0.12710 | 0.10280 | 0.104600 |
| 138 | 462.0 | 0.11900 | 0.16480 | 0.139900 |
| 139 | 971.4 | 0.14110 | 0.21640 | 0.335500 |
| 140 | 434.0 | 0.13670 | 0.18220 | 0.086690 |
| 141 | 342.9 | 0.12340 | 0.07204 | 0.000000 |
| 142 | 1233.0 | 0.13140 | 0.22360 | 0.280200 |
| 143 | 503.0 | 0.14130 | 0.17920 | 0.077080 |
| 144 | 643.8 | 0.13120 | 0.25480 | 0.209000 |
| 145 | 441.2 | 0.10760 | 0.12230 | 0.097550 |
| 146 | 509.6 | 0.14240 | 0.25170 | 0.094200 |
| 147 | 591.7 | 0.13850 | 0.40920 | 0.450400 |
| 148 | 809.7 | 0.09970 | 0.25210 | 0.250000 |
| 149 | 766.9 | 0.13160 | 0.27350 | 0.310300 |
| 150 | 725.9 | 0.09711 | 0.18240 | 0.156400 |
| 151 | 616.7 | 0.12970 | 0.11050 | 0.081120 |
| 152 | 249.8 | 0.16300 | 0.43100 | 0.538100 |
| 153 | 380.5 | 0.12920 | 0.27720 | 0.821600 |
| 154 | 440.8 | 0.13410 | 0.08971 | 0.071160 |
| 155 | 677.3 | 0.14780 | 0.22560 | 0.300900 |
| 156 | 564.2 | 0.12170 | 0.17880 | 0.194300 |
| 157 | 1302.0 | 0.14180 | 0.34980 | 0.358300 |
| 158 | 1032.0 | 0.08774 | 0.17100 | 0.188200 |
| 159 | 532.8 | 0.12750 | 0.12320 | 0.086360 |
| 160 | 470.0 | 0.11710 | 0.08294 | 0.018540 |
| 161 | 543.9 | 0.13580 | 0.18920 | 0.195600 |
| 162 | 1495.0 | 0.11240 | 0.20160 | 0.226400 |
| 163 | 2232.0 | 0.14380 | 0.38460 | 0.681000 |
| 164 | 553.0 | 0.14520 | 0.23380 | 0.168800 |
| 165 | 2403.0 | 0.12280 | 0.35830 | 0.394800 |
| 166 | 782.1 | 0.10450 | 0.09995 | 0.077500 |
| 167 | 414.0 | 0.14360 | 0.12570 | 0.104700 |
| 168 | 1260.0 | 0.11680 | 0.21190 | 0.231800 |
| 169 | 1660.0 | 0.13760 | 0.38300 | 0.489000 |
| 170 | 793.7 | 0.12160 | 0.16370 | 0.066480 |
| 171 | 549.1 | 0.13850 | 0.12660 | 0.124200 |
| 172 | 993.6 | 0.14010 | 0.15460 | 0.264400 |

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| 173 | 1102.0 | 0.15310 | 0.35830 | 0.583000 |
| 174 | 396.5 | 0.12160 | 0.08240 | 0.039380 |
| 175 | 408.3 | 0.10760 | 0.06791 | 0.000000 |
| 176 | 259.2 | 0.11620 | 0.07057 | 0.000000 |
| 177 | 390.2 | 0.13010 | 0.29500 | 0.348600 |
| 178 | 981.2 | 0.14150 | 0.46670 | 0.586200 |
| 179 | 608.8 | 0.08125 | 0.03432 | 0.007977 |
| 180 | 570.7 | 0.11620 | 0.05445 | 0.027580 |
| 181 | 3216.0 | 0.14720 | 0.40340 | 0.534000 |
| 182 | 2089.0 | 0.14910 | 0.75840 | 0.678000 |
| 183 | 1269.0 | 0.14140 | 0.35470 | 0.290200 |
| 184 | 467.2 | 0.11210 | 0.16100 | 0.164800 |
| 185 | 973.1 | 0.13010 | 0.32990 | 0.363000 |
| 186 | 437.0 | 0.15210 | 0.10190 | 0.006920 |
| 187 | 1410.0 | 0.12340 | 0.24450 | 0.353800 |
| 188 | 521.5 | 0.13230 | 0.10400 | 0.152100 |
| 189 | 489.5 | 0.13560 | 0.10000 | 0.088030 |
| 190 | 546.7 | 0.10960 | 0.16500 | 0.142300 |
| 191 | 762.4 | 0.15330 | 0.93270 | 0.848800 |
| 192 | 579.5 | 0.09388 | 0.08978 | 0.051860 |
| 193 | 303.8 | 0.07117 | 0.02729 | 0.000000 |
| 194 | 768.9 | 0.17850 | 0.47060 | 0.442500 |
| 195 | 784.7 | 0.13160 | 0.46480 | 0.458900 |
| 196 | 600.6 | 0.10970 | 0.15060 | 0.176400 |
| 197 | 806.9 | 0.17370 | 0.31220 | 0.380900 |
| 198 | 1228.0 | 0.08822 | 0.19630 | 0.253500 |
| 199 | 1688.0 | 0.13220 | 0.56010 | 0.386500 |
| 200 | 1044.0 | 0.15520 | 0.40560 | 0.496700 |
| 201 | 638.4 | 0.14290 | 0.20420 | 0.137700 |
| 202 | 1239.0 | 0.13810 | 0.34200 | 0.350800 |
| 203 | 1986.0 | 0.15360 | 0.41670 | 0.789200 |
| 204 | 1153.0 | 0.22260 | 0.52090 | 0.464600 |
| 205 | 677.9 | 0.14260 | 0.23780 | 0.267100 |
| 206 | 989.5 | 0.14910 | 0.33310 | 0.332700 |
| 207 | 331.6 | 0.14150 | 0.12470 | 0.062130 |
| 208 | 1210.0 | 0.11110 | 0.14860 | 0.193200 |
| 209 | 639.3 | 0.13490 | 0.44020 | 0.316200 |
| 210 | 932.7 | 0.12220 | 0.21860 | 0.296200 |
| 211 | 1656.0 | 0.11780 | 0.29200 | 0.386100 |
| 212 | 546.3 | 0.12800 | 0.18800 | 0.147100 |
| 213 | 2499.0 | 0.11420 | 0.15160 | 0.320100 |
| 214 | 1021.0 | 0.12430 | 0.17930 | 0.280300 |
| 215 | 811.3 | 0.15590 | 0.40590 | 0.374400 |

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|-----|--------|---------|---------|----------|
| 216 | 750.1 | 0.14600 | 0.43700 | 0.463600 |
| 217 | 531.2 | 0.14050 | 0.30460 | 0.280600 |
| 218 | 403.7 | 0.09527 | 0.13970 | 0.192500 |
| 219 | 2009.0 | 0.13530 | 0.32350 | 0.361700 |
| 220 | 2477.0 | 0.14080 | 0.40970 | 0.399500 |
| 221 | 706.2 | 0.13110 | 0.24740 | 0.175900 |
| 222 | 686.6 | 0.13760 | 0.26980 | 0.257700 |
| 223 | 375.6 | 0.14060 | 0.14400 | 0.065720 |
| 224 | 1088.0 | 0.15520 | 0.44800 | 0.397600 |
| 225 | 708.8 | 0.12760 | 0.13110 | 0.178600 |
| 226 | 873.2 | 0.12970 | 0.15250 | 0.163200 |
| 227 | 395.4 | 0.13410 | 0.11530 | 0.026390 |
| 228 | 808.2 | 0.11360 | 0.36270 | 0.340200 |
| 229 | 624.0 | 0.12270 | 0.34540 | 0.391100 |
| 230 | 706.0 | 0.17770 | 0.53430 | 0.628200 |
| 231 | 1189.0 | 0.17030 | 0.39340 | 0.501800 |
| 232 | 452.3 | 0.09203 | 0.14320 | 0.108900 |
| 233 | 470.9 | 0.09994 | 0.06885 | 0.023180 |
| 234 | 1872.0 | 0.12230 | 0.27610 | 0.414600 |
| 235 | 335.9 | 0.15040 | 0.09515 | 0.071610 |
| 236 | 715.5 | 0.12870 | 0.15130 | 0.062310 |
| 237 | 2944.0 | 0.14810 | 0.41260 | 0.582000 |
| 238 | 1750.0 | 0.12280 | 0.23110 | 0.315800 |
| 239 | 764.0 | 0.10810 | 0.24260 | 0.306400 |
| 240 | 1408.0 | 0.13650 | 0.37350 | 0.324100 |
| 241 | 683.4 | 0.12780 | 0.12910 | 0.153300 |
| 242 | 543.4 | 0.10370 | 0.07776 | 0.062430 |
| 243 | 472.9 | 0.13470 | 0.48480 | 0.743600 |
| 244 | 706.0 | 0.09368 | 0.14420 | 0.135900 |
| 245 | 1417.0 | 0.14630 | 0.29680 | 0.345800 |
| 246 | 402.8 | 0.15150 | 0.10260 | 0.118100 |
| 247 | 602.0 | 0.11010 | 0.15080 | 0.229800 |
| 248 | 639.1 | 0.12540 | 0.58490 | 0.772700 |
| 249 | 455.7 | 0.14990 | 0.13980 | 0.112500 |
| 250 | 491.8 | 0.13890 | 0.15820 | 0.180400 |
| 251 | 2010.0 | 0.12110 | 0.31720 | 0.699100 |
| 252 | 508.9 | 0.11830 | 0.10490 | 0.081050 |
| 253 | 1933.0 | 0.17100 | 0.59550 | 0.848900 |
| 254 | 1222.0 | 0.14160 | 0.24050 | 0.337800 |
| 255 | 1972.0 | 0.14970 | 0.31610 | 0.431700 |
| 256 | 826.0 | 0.15120 | 0.32620 | 0.320900 |
| 257 | 1926.0 | 0.12810 | 0.53290 | 0.425100 |
| 258 | 928.8 | 0.17650 | 0.45030 | 0.442900 |

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|-----|--------|---------|---------|----------|
| 259 | 1226.0 | 0.15040 | 0.51720 | 0.618100 |
| 260 | 1035.0 | 0.18830 | 0.55640 | 0.570300 |
| 261 | 1844.0 | 0.15220 | 0.29450 | 0.378800 |
| 262 | 1218.0 | 0.12400 | 0.14860 | 0.121100 |
| 263 | 1295.0 | 0.11340 | 0.28670 | 0.229800 |
| 264 | 988.6 | 0.10840 | 0.18070 | 0.226000 |
| 265 | 1436.0 | 0.15580 | 0.25670 | 0.388900 |
| 266 | 3432.0 | 0.14010 | 0.26440 | 0.344200 |
| 267 | 424.8 | 0.12130 | 0.25150 | 0.191600 |
| 268 | 661.5 | 0.10050 | 0.17300 | 0.145300 |
| 269 | 597.5 | 0.12560 | 0.18080 | 0.199200 |
| 270 | 410.4 | 0.13350 | 0.25500 | 0.253400 |
| 271 | 684.6 | 0.08567 | 0.05036 | 0.038660 |
| 272 | 457.5 | 0.13580 | 0.15070 | 0.127500 |
| 273 | 2384.0 | 0.12720 | 0.47250 | 0.580700 |
| 274 | 355.2 | 0.14670 | 0.09370 | 0.040430 |
| 275 | 1320.0 | 0.13150 | 0.18060 | 0.208000 |
| 276 | 472.4 | 0.13590 | 0.08368 | 0.071530 |
| 277 | 458.0 | 0.12590 | 0.07348 | 0.004955 |
| 278 | 1236.0 | 0.12430 | 0.11600 | 0.221000 |
| 279 | 739.1 | 0.10500 | 0.07622 | 0.106000 |
| 280 | 670.0 | 0.11850 | 0.17240 | 0.145600 |
| 281 | 1724.0 | 0.17820 | 0.38410 | 0.575400 |
| 282 | 533.7 | 0.10360 | 0.08500 | 0.067350 |
| 283 | 1628.0 | 0.15180 | 0.37490 | 0.431600 |
| 284 | 1031.0 | 0.13650 | 0.47060 | 0.502600 |
| 285 | 595.6 | 0.09926 | 0.23170 | 0.334400 |
| 286 | 564.1 | 0.10380 | 0.06624 | 0.005579 |
| 287 | 546.1 | 0.11160 | 0.28130 | 0.236500 |
| 288 | 577.0 | 0.09616 | 0.11470 | 0.118600 |
| 289 | 437.6 | 0.10280 | 0.18430 | 0.154600 |
| 290 | 459.3 | 0.11180 | 0.09708 | 0.075290 |
| 291 | 767.3 | 0.09983 | 0.24720 | 0.222000 |
| 292 | 809.8 | 0.13130 | 0.30300 | 0.180400 |
| 293 | 585.4 | 0.14830 | 0.20680 | 0.224100 |
| 294 | 517.8 | 0.13690 | 0.17580 | 0.131600 |
| 295 | 553.7 | 0.12980 | 0.14720 | 0.052330 |
| 296 | 661.1 | 0.11700 | 0.10720 | 0.037320 |
| 297 | 392.2 | 0.09312 | 0.07506 | 0.028840 |
| 298 | 553.6 | 0.11370 | 0.07974 | 0.061200 |
| 299 | 819.7 | 0.09445 | 0.21670 | 0.156500 |
| 300 | 362.7 | 0.11430 | 0.08614 | 0.041580 |
| 301 | 2053.0 | 0.14950 | 0.41160 | 0.612100 |

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|-----|--------|---------|---------|----------|
| 302 | 551.3 | 0.10500 | 0.21580 | 0.190400 |
| 303 | 1696.0 | 0.13470 | 0.33910 | 0.493200 |
| 304 | 375.4 | 0.14130 | 0.10440 | 0.084230 |
| 305 | 489.8 | 0.11440 | 0.17890 | 0.122600 |
| 306 | 476.5 | 0.09545 | 0.13610 | 0.072390 |
| 307 | 636.9 | 0.11280 | 0.13460 | 0.011200 |
| 308 | 285.5 | 0.09861 | 0.05232 | 0.014720 |
| 309 | 698.7 | 0.09023 | 0.05836 | 0.013790 |
| 310 | 672.4 | 0.10160 | 0.05847 | 0.018240 |
| 311 | 483.1 | 0.12230 | 0.10870 | 0.079150 |
| 312 | 840.8 | 0.10110 | 0.07087 | 0.047460 |
| 313 | 618.8 | 0.11940 | 0.22080 | 0.176900 |
| 314 | 467.8 | 0.10920 | 0.16260 | 0.083240 |
| 315 | 240.1 | 0.13470 | 0.07767 | 0.000000 |
| 316 | 544.2 | 0.11040 | 0.04953 | 0.019380 |
| 317 | 513.1 | 0.10010 | 0.05332 | 0.041160 |
| 318 | 1485.0 | 0.14340 | 0.27630 | 0.385300 |
| 319 | 297.1 | 0.12210 | 0.37480 | 0.460900 |
| 320 | 515.9 | 0.08409 | 0.04712 | 0.022370 |
| 321 | 390.4 | 0.14020 | 0.23600 | 0.189800 |
| 322 | 1657.0 | 0.10540 | 0.15370 | 0.260600 |
| 323 | 599.5 | 0.15470 | 0.22310 | 0.179100 |
| 324 | 1938.0 | 0.15920 | 0.44920 | 0.534400 |
| 325 | 583.1 | 0.12560 | 0.19280 | 0.116700 |
| 326 | 574.4 | 0.13840 | 0.12120 | 0.102000 |
| 327 | 749.9 | 0.12810 | 0.11090 | 0.053070 |
| 328 | 523.4 | 0.10130 | 0.07390 | 0.007732 |
| 329 | 1121.0 | 0.15900 | 0.29470 | 0.359700 |
| 330 | 975.2 | 0.14260 | 0.21160 | 0.334400 |
| 331 | 1070.0 | 0.14350 | 0.44780 | 0.495600 |
| 332 | 634.3 | 0.12880 | 0.32530 | 0.343900 |
| 333 | 436.1 | 0.14240 | 0.09669 | 0.013350 |
| 334 | 492.7 | 0.11660 | 0.09794 | 0.005518 |
| 335 | 544.3 | 0.12220 | 0.09052 | 0.036190 |
| 336 | 1362.0 | 0.14490 | 0.20530 | 0.392000 |
| 337 | 576.0 | 0.11420 | 0.19750 | 0.145000 |
| 338 | 1873.0 | 0.14980 | 0.48270 | 0.463400 |
| 339 | 384.0 | 0.14020 | 0.14020 | 0.105500 |
| 340 | 2906.0 | 0.15150 | 0.26780 | 0.481900 |
| 341 | 862.1 | 0.12940 | 0.33710 | 0.375500 |
| 342 | 353.6 | 0.12330 | 0.34160 | 0.434100 |
| 343 | 440.0 | 0.14180 | 0.22100 | 0.229900 |
| 344 | 1540.0 | 0.12180 | 0.34580 | 0.473400 |

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| 345 | 516.4 | 0.14600 | 0.11150 | 0.108700 |
| 346 | 357.1 | 0.13600 | 0.16360 | 0.071620 |
| 347 | 562.6 | 0.12890 | 0.13520 | 0.045060 |
| 348 | 880.8 | 0.12200 | 0.20090 | 0.215100 |
| 349 | 475.8 | 0.15310 | 0.11200 | 0.098230 |
| 350 | 496.2 | 0.12930 | 0.18850 | 0.031220 |
| 351 | 542.5 | 0.09958 | 0.06476 | 0.030460 |
| 352 | 915.3 | 0.15500 | 0.50460 | 0.687200 |
| 353 | 3234.0 | 0.15300 | 0.59370 | 0.645100 |
| 354 | 1050.0 | 0.16600 | 0.23560 | 0.402900 |
| 355 | 453.5 | 0.08864 | 0.12560 | 0.120100 |
| 356 | 547.4 | 0.10960 | 0.20020 | 0.238800 |
| 357 | 591.2 | 0.13430 | 0.26580 | 0.257300 |
| 358 | 694.4 | 0.11530 | 0.10080 | 0.052850 |
| 359 | 302.0 | 0.10150 | 0.12480 | 0.094410 |
| 360 | 439.6 | 0.13330 | 0.10490 | 0.114400 |
| 361 | 585.7 | 0.09293 | 0.04327 | 0.003581 |
| 362 | 621.2 | 0.11400 | 0.16670 | 0.121200 |
| 363 | 579.7 | 0.12980 | 0.18390 | 0.125500 |
| 364 | 1009.0 | 0.13380 | 0.16790 | 0.166300 |
| 365 | 663.5 | 0.12130 | 0.16760 | 0.136400 |
| 366 | 1780.0 | 0.13270 | 0.23760 | 0.270200 |
| 367 | 1671.0 | 0.12780 | 0.34160 | 0.370300 |
| 368 | 624.6 | 0.13680 | 0.21700 | 0.241300 |
| 369 | 3143.0 | 0.13630 | 0.16280 | 0.286100 |
| 370 | 2227.0 | 0.12940 | 0.38850 | 0.475600 |
| 371 | 1165.0 | 0.14150 | 0.46650 | 0.708700 |
| 372 | 819.1 | 0.11260 | 0.17370 | 0.136200 |
| 373 | 1535.0 | 0.11920 | 0.28400 | 0.402400 |
| 374 | 1946.0 | 0.15620 | 0.30550 | 0.415900 |
| 375 | 670.6 | 0.11050 | 0.20960 | 0.134600 |
| 376 | 861.5 | 0.12350 | 0.25500 | 0.211400 |
| 377 | 351.9 | 0.11430 | 0.36190 | 0.603000 |
| 378 | 680.6 | 0.11080 | 0.14570 | 0.079340 |
| 379 | 657.0 | 0.12750 | 0.31040 | 0.256900 |
| 380 | 508.1 | 0.21840 | 0.93790 | 0.840200 |
| 381 | 476.1 | 0.16100 | 0.24290 | 0.224700 |
| 382 | 447.1 | 0.10950 | 0.19820 | 0.155300 |
| 383 | 488.4 | 0.08799 | 0.32140 | 0.291200 |
| 384 | 600.5 | 0.14270 | 0.35930 | 0.320600 |
| 385 | 623.7 | 0.11660 | 0.26850 | 0.286600 |
| 386 | 758.2 | 0.13120 | 0.15810 | 0.267500 |
| 387 | 529.9 | 0.10260 | 0.24310 | 0.307600 |

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| 388 | 745.3 | 0.08484 | 0.12330 | 0.109100 |
| 389 | 450.0 | 0.11020 | 0.28090 | 0.302100 |
| 390 | 1313.0 | 0.12510 | 0.24140 | 0.382900 |
| 391 | 394.5 | 0.13430 | 0.16500 | 0.086150 |
| 392 | 317.0 | 0.14600 | 0.13100 | 0.000000 |
| 393 | 1359.0 | 0.16810 | 0.39130 | 0.555300 |
| 394 | 2081.0 | 0.15020 | 0.57170 | 0.705300 |
| 395 | 559.5 | 0.14320 | 0.17730 | 0.160300 |
| 396 | 684.5 | 0.10660 | 0.12310 | 0.084600 |
| 397 | 675.2 | 0.14280 | 0.25700 | 0.343800 |
| 398 | 591.0 | 0.09534 | 0.18120 | 0.190100 |
| 399 | 496.7 | 0.11200 | 0.18790 | 0.207900 |
| 400 | 562.0 | 0.12440 | 0.17260 | 0.144900 |
| 401 | 1304.0 | 0.18730 | 0.59170 | 0.903400 |
| 402 | 589.5 | 0.13740 | 0.15750 | 0.151400 |
| 403 | 621.9 | 0.09329 | 0.23180 | 0.160400 |
| 404 | 580.9 | 0.11720 | 0.19580 | 0.181000 |
| 405 | 533.1 | 0.10480 | 0.06744 | 0.049210 |
| 406 | 472.4 | 0.13630 | 0.16440 | 0.141200 |
| 407 | 947.9 | 0.12060 | 0.17220 | 0.231000 |
| 408 | 645.8 | 0.09402 | 0.19360 | 0.183800 |
| 409 | 1349.0 | 0.14820 | 0.37350 | 0.330100 |
| 410 | 610.2 | 0.12400 | 0.17950 | 0.137700 |
| 411 | 521.3 | 0.14530 | 0.16220 | 0.181100 |
| 412 | 471.4 | 0.13690 | 0.14820 | 0.106700 |
| 413 | 301.0 | 0.10860 | 0.18870 | 0.186800 |
| 414 | 867.1 | 0.10770 | 0.33450 | 0.311400 |
| 415 | 931.4 | 0.11480 | 0.09866 | 0.154700 |
| 416 | 522.9 | 0.14260 | 0.21870 | 0.116400 |
| 417 | 359.4 | 0.15260 | 0.11930 | 0.061410 |
| 418 | 1748.0 | 0.15170 | 0.40020 | 0.421100 |
| 419 | 566.9 | 0.13140 | 0.16070 | 0.093850 |
| 420 | 458.0 | 0.12820 | 0.11080 | 0.035820 |
| 421 | 520.5 | 0.12490 | 0.19370 | 0.256000 |
| 422 | 809.2 | 0.13120 | 0.36350 | 0.321900 |
| 423 | 475.7 | 0.14150 | 0.21700 | 0.230200 |
| 424 | 708.8 | 0.11470 | 0.31670 | 0.366000 |
| 425 | 380.9 | 0.13980 | 0.13520 | 0.020850 |
| 426 | 376.3 | 0.11260 | 0.07094 | 0.012350 |
| 427 | 440.4 | 0.13270 | 0.29960 | 0.293900 |
| 428 | 489.5 | 0.13030 | 0.16960 | 0.192700 |
| 429 | 421.1 | 0.10300 | 0.06219 | 0.045800 |
| 430 | 586.8 | 0.10680 | 0.09605 | 0.034690 |

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| 431 | 832.7 | 0.14190 | 0.70900 | 0.901900 |
| 432 | 515.8 | 0.14500 | 0.26290 | 0.240300 |
| 433 | 1479.0 | 0.16650 | 0.29420 | 0.530800 |
| 434 | 1603.0 | 0.13900 | 0.34630 | 0.391200 |
| 435 | 777.5 | 0.12180 | 0.15500 | 0.122000 |
| 436 | 869.3 | 0.16130 | 0.35680 | 0.406900 |
| 437 | 626.9 | 0.12140 | 0.16520 | 0.071270 |
| 438 | 750.0 | 0.11950 | 0.12520 | 0.111700 |
| 439 | 749.1 | 0.11180 | 0.11410 | 0.047530 |
| 440 | 688.9 | 0.10340 | 0.10170 | 0.062600 |
| 441 | 476.4 | 0.13910 | 0.40820 | 0.477900 |
| 442 | 1284.0 | 0.14360 | 0.41220 | 0.503600 |
| 443 | 706.6 | 0.10720 | 0.10710 | 0.035170 |
| 444 | 366.3 | 0.09794 | 0.06542 | 0.039860 |
| 445 | 1292.0 | 0.12630 | 0.26660 | 0.429000 |
| 446 | 513.9 | 0.13110 | 0.18220 | 0.160900 |
| 447 | 1437.0 | 0.14010 | 0.37620 | 0.639900 |
| 448 | 829.5 | 0.12260 | 0.18810 | 0.206000 |
| 449 | 830.5 | 0.10890 | 0.26490 | 0.377900 |
| 450 | 2022.0 | 0.13680 | 0.31010 | 0.439900 |
| 451 | 507.2 | 0.09457 | 0.33990 | 0.321800 |
| 452 | 1421.0 | 0.15280 | 0.18450 | 0.397700 |
| 453 | 523.7 | 0.12080 | 0.18560 | 0.181100 |
| 454 | 749.9 | 0.13470 | 0.14780 | 0.137300 |
| 455 | 633.5 | 0.12250 | 0.15170 | 0.188700 |
| 456 | 705.6 | 0.11720 | 0.14210 | 0.070030 |
| 457 | 527.8 | 0.14060 | 0.20310 | 0.292300 |
| 458 | 632.9 | 0.12890 | 0.10630 | 0.139000 |
| 459 | 628.5 | 0.12180 | 0.10930 | 0.044620 |
| 460 | 349.9 | 0.11100 | 0.11090 | 0.071900 |
| 461 | 1648.0 | 0.16000 | 0.24440 | 0.263900 |
| 462 | 4254.0 | 0.13570 | 0.42560 | 0.683300 |
| 463 | 734.6 | 0.10170 | 0.14600 | 0.147200 |
| 464 | 495.1 | 0.13420 | 0.18080 | 0.186000 |
| 465 | 687.6 | 0.12820 | 0.19650 | 0.187600 |
| 466 | 733.5 | 0.12010 | 0.56460 | 0.655600 |
| 467 | 689.1 | 0.13510 | 0.35490 | 0.450400 |
| 468 | 380.2 | 0.13880 | 0.12550 | 0.064090 |
| 469 | 1437.0 | 0.12070 | 0.47850 | 0.516500 |
| 470 | 528.1 | 0.17800 | 0.28780 | 0.318600 |
| 471 | 385.2 | 0.12340 | 0.15420 | 0.127700 |
| 472 | 567.6 | 0.10410 | 0.09726 | 0.055240 |
| 473 | 906.6 | 0.10650 | 0.27910 | 0.315100 |

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| 474 | 558.9 | 0.09422 | 0.05213 | 0.000000 |
| 475 | 433.1 | 0.13320 | 0.38980 | 0.336500 |
| 476 | 605.8 | 0.13260 | 0.26100 | 0.347600 |
| 477 | 828.5 | 0.11530 | 0.34290 | 0.251200 |
| 478 | 718.9 | 0.09384 | 0.20060 | 0.138400 |
| 479 | 467.6 | 0.13520 | 0.20100 | 0.259600 |
| 480 | 939.7 | 0.13770 | 0.44620 | 0.589700 |
| 481 | 547.4 | 0.12080 | 0.22790 | 0.162000 |
| 482 | 830.5 | 0.10640 | 0.14150 | 0.167300 |
| 483 | 660.2 | 0.13930 | 0.24990 | 0.184800 |
| 484 | 686.5 | 0.11990 | 0.13460 | 0.174200 |
| 485 | 854.3 | 0.15410 | 0.29790 | 0.400400 |
| 486 | 580.6 | 0.11750 | 0.40610 | 0.489600 |
| 487 | 831.0 | 0.11420 | 0.20700 | 0.243700 |
| 488 | 1740.0 | 0.15140 | 0.37250 | 0.593600 |
| 489 | 549.8 | 0.15260 | 0.14770 | 0.149000 |
| 490 | 1084.0 | 0.10090 | 0.29200 | 0.247700 |
| 491 | 622.9 | 0.12560 | 0.18040 | 0.123000 |
| 492 | 1210.0 | 0.09862 | 0.09976 | 0.104800 |
| 493 | 1426.0 | 0.13090 | 0.23270 | 0.254400 |
| 494 | 534.0 | 0.09439 | 0.06477 | 0.016740 |
| 495 | 648.3 | 0.11180 | 0.16460 | 0.076980 |
| 496 | 783.6 | 0.12160 | 0.13880 | 0.170000 |
| 497 | 633.7 | 0.15330 | 0.38420 | 0.358200 |
| 498 | 607.3 | 0.12760 | 0.25060 | 0.202800 |
| 499 | 1600.0 | 0.14120 | 0.30890 | 0.353300 |
| 500 | 1760.0 | 0.14640 | 0.35970 | 0.517900 |
| 501 | 856.9 | 0.11350 | 0.21760 | 0.185600 |
| 502 | 788.0 | 0.17940 | 0.39660 | 0.338100 |
| 503 | 552.0 | 0.15800 | 0.17510 | 0.188900 |
| 504 | 2782.0 | 0.11990 | 0.36250 | 0.379400 |
| 505 | 300.2 | 0.19020 | 0.34410 | 0.209900 |
| 506 | 328.1 | 0.20060 | 0.36630 | 0.291300 |
| 507 | 515.3 | 0.14020 | 0.23150 | 0.353500 |
| 508 | 411.1 | 0.16620 | 0.20310 | 0.125600 |
| 509 | 928.2 | 0.13540 | 0.13610 | 0.194700 |
| 510 | 909.4 | 0.17320 | 0.49670 | 0.591100 |
| 511 | 473.8 | 0.10730 | 0.27930 | 0.269000 |
| 512 | 760.2 | 0.11390 | 0.10110 | 0.110100 |
| 513 | 844.4 | 0.15740 | 0.38560 | 0.510600 |
| 514 | 862.0 | 0.12230 | 0.19280 | 0.249200 |
| 515 | 967.0 | 0.12460 | 0.21010 | 0.286600 |
| 516 | 478.6 | 0.14830 | 0.15740 | 0.162400 |

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| 517 | 1493.0 | 0.14920 | 0.25360 | 0.375900 |
| 518 | 1646.0 | 0.14170 | 0.33090 | 0.418500 |
| 519 | 674.7 | 0.14560 | 0.29610 | 0.124600 |
| 520 | 624.1 | 0.14750 | 0.19790 | 0.142300 |
| 521 | 326.6 | 0.18500 | 0.20970 | 0.099960 |
| 522 | 2642.0 | 0.13420 | 0.41880 | 0.465800 |
| 523 | 435.9 | 0.11080 | 0.07723 | 0.025330 |
| 524 | 701.9 | 0.14250 | 0.25660 | 0.193500 |
| 525 | 376.5 | 0.14190 | 0.22430 | 0.084340 |
| 526 | 275.6 | 0.16410 | 0.22350 | 0.175400 |
| 527 | 719.8 | 0.16240 | 0.31240 | 0.265400 |
| 528 | 564.9 | 0.12920 | 0.20740 | 0.179100 |
| 529 | 653.3 | 0.13940 | 0.13640 | 0.155900 |
| 530 | 549.9 | 0.15210 | 0.16320 | 0.162200 |
| 531 | 552.3 | 0.13490 | 0.18540 | 0.136600 |
| 532 | 550.6 | 0.15500 | 0.29640 | 0.275800 |
| 533 | 773.4 | 0.12640 | 0.15640 | 0.120600 |
| 534 | 1645.0 | 0.10970 | 0.25340 | 0.309200 |
| 535 | 407.5 | 0.14280 | 0.25100 | 0.212300 |
| 536 | 1809.0 | 0.12680 | 0.31350 | 0.443300 |
| 537 | 728.3 | 0.13800 | 0.27330 | 0.423400 |
| 538 | 487.7 | 0.17680 | 0.32510 | 0.139500 |
| 539 | 248.0 | 0.12560 | 0.08340 | 0.000000 |
| 540 | 223.6 | 0.15960 | 0.30640 | 0.339300 |
| 541 | 457.8 | 0.13450 | 0.21180 | 0.179700 |
| 542 | 808.9 | 0.13400 | 0.42020 | 0.404000 |
| 543 | 826.4 | 0.10600 | 0.13760 | 0.161100 |
| 544 | 629.6 | 0.10720 | 0.13810 | 0.106200 |
| 545 | 688.6 | 0.12640 | 0.20370 | 0.137700 |
| 546 | 729.8 | 0.12160 | 0.15170 | 0.104900 |
| 547 | 384.9 | 0.12850 | 0.08842 | 0.043840 |
| 548 | 357.4 | 0.14610 | 0.22460 | 0.178300 |
| 549 | 364.2 | 0.11990 | 0.09546 | 0.093500 |
| 550 | 505.6 | 0.12040 | 0.16330 | 0.061940 |
| 551 | 412.3 | 0.10010 | 0.07348 | 0.000000 |
| 552 | 436.6 | 0.10870 | 0.17820 | 0.156400 |
| 553 | 594.7 | 0.12340 | 0.10640 | 0.086530 |
| 554 | 295.8 | 0.11030 | 0.08298 | 0.079930 |
| 555 | 595.7 | 0.12270 | 0.16200 | 0.243900 |
| 556 | 357.6 | 0.13840 | 0.17100 | 0.200000 |
| 557 | 347.3 | 0.12650 | 0.12000 | 0.010050 |
| 558 | 330.6 | 0.10730 | 0.07158 | 0.000000 |
| 559 | 733.5 | 0.10260 | 0.31710 | 0.366200 |

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|-----|--------|---------|---------|----------|
| 560 | 474.2 | 0.12980 | 0.25170 | 0.363000 |
| 561 | 706.7 | 0.12410 | 0.22640 | 0.132600 |
| 562 | 439.6 | 0.09267 | 0.05494 | 0.000000 |
| 563 | 915.0 | 0.14170 | 0.79170 | 1.170000 |
| 564 | 1819.0 | 0.14070 | 0.41860 | 0.659900 |
| 565 | 2027.0 | 0.14100 | 0.21130 | 0.410700 |
| 566 | 1731.0 | 0.11660 | 0.19220 | 0.321500 |
| 567 | 1124.0 | 0.11390 | 0.30940 | 0.340300 |
| 568 | 1821.0 | 0.16500 | 0.86810 | 0.938700 |
| 569 | 268.6 | 0.08996 | 0.06444 | 0.000000 |

| | concave.points_worst | symmetry_worst | fractal_dimension_worst |
|----|----------------------|----------------|-------------------------|
| 1 | 0.265400 | 0.4601 | 0.11890 |
| 2 | 0.186000 | 0.2750 | 0.08902 |
| 3 | 0.243000 | 0.3613 | 0.08758 |
| 4 | 0.257500 | 0.6638 | 0.17300 |
| 5 | 0.162500 | 0.2364 | 0.07678 |
| 6 | 0.174100 | 0.3985 | 0.12440 |
| 7 | 0.193200 | 0.3063 | 0.08368 |
| 8 | 0.155600 | 0.3196 | 0.11510 |
| 9 | 0.206000 | 0.4378 | 0.10720 |
| 10 | 0.221000 | 0.4366 | 0.20750 |
| 11 | 0.099750 | 0.2948 | 0.08452 |
| 12 | 0.181000 | 0.3792 | 0.10480 |
| 13 | 0.176700 | 0.3176 | 0.10230 |
| 14 | 0.111900 | 0.2809 | 0.06287 |
| 15 | 0.220800 | 0.3596 | 0.14310 |
| 16 | 0.171200 | 0.4218 | 0.13410 |
| 17 | 0.160900 | 0.3029 | 0.08216 |
| 18 | 0.207300 | 0.3706 | 0.11420 |
| 19 | 0.238800 | 0.2768 | 0.07615 |
| 20 | 0.128800 | 0.2977 | 0.07259 |
| 21 | 0.072830 | 0.3184 | 0.08183 |
| 22 | 0.062270 | 0.2450 | 0.07773 |
| 23 | 0.239300 | 0.4667 | 0.09946 |
| 24 | 0.200900 | 0.2822 | 0.07526 |
| 25 | 0.209500 | 0.3613 | 0.09564 |
| 26 | 0.255000 | 0.4066 | 0.10590 |
| 27 | 0.270100 | 0.4264 | 0.12750 |
| 28 | 0.149000 | 0.2341 | 0.07421 |
| 29 | 0.202400 | 0.4027 | 0.09876 |
| 30 | 0.145600 | 0.2756 | 0.07919 |
| 31 | 0.184800 | 0.3444 | 0.09782 |
| 32 | 0.154600 | 0.4761 | 0.14020 |

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|----|----------|--------|---------|
| 33 | 0.184700 | 0.3530 | 0.08482 |
| 34 | 0.178500 | 0.3672 | 0.11230 |
| 35 | 0.186400 | 0.4270 | 0.12330 |
| 36 | 0.181300 | 0.4863 | 0.08633 |
| 37 | 0.144700 | 0.3591 | 0.10140 |
| 38 | 0.050130 | 0.1987 | 0.06169 |
| 39 | 0.028990 | 0.1565 | 0.05504 |
| 40 | 0.225800 | 0.2807 | 0.10710 |
| 41 | 0.111200 | 0.2994 | 0.07146 |
| 42 | 0.142400 | 0.2964 | 0.09606 |
| 43 | 0.249300 | 0.4670 | 0.10380 |
| 44 | 0.149200 | 0.3739 | 0.10270 |
| 45 | 0.160700 | 0.3693 | 0.09618 |
| 46 | 0.237800 | 0.3799 | 0.09185 |
| 47 | 0.025640 | 0.3105 | 0.07409 |
| 48 | 0.208800 | 0.3900 | 0.11790 |
| 49 | 0.065480 | 0.2747 | 0.08301 |
| 50 | 0.128200 | 0.2871 | 0.06917 |
| 51 | 0.037150 | 0.2433 | 0.06563 |
| 52 | 0.085860 | 0.2346 | 0.08025 |
| 53 | 0.062960 | 0.2785 | 0.07408 |
| 54 | 0.132500 | 0.3021 | 0.07987 |
| 55 | 0.153000 | 0.2675 | 0.07873 |
| 56 | 0.063160 | 0.3306 | 0.07036 |
| 57 | 0.209100 | 0.3537 | 0.08294 |
| 58 | 0.183400 | 0.3698 | 0.10940 |
| 59 | 0.011110 | 0.2439 | 0.06289 |
| 60 | 0.044190 | 0.3220 | 0.09026 |
| 61 | 0.025790 | 0.3557 | 0.08020 |
| 62 | 0.027780 | 0.2972 | 0.07712 |
| 63 | 0.178500 | 0.2844 | 0.11320 |
| 64 | 0.050870 | 0.3282 | 0.08490 |
| 65 | 0.171600 | 0.3383 | 0.10310 |
| 66 | 0.161400 | 0.3321 | 0.08911 |
| 67 | 0.065170 | 0.2878 | 0.09211 |
| 68 | 0.069610 | 0.2400 | 0.06641 |
| 69 | 0.175000 | 0.4228 | 0.11750 |
| 70 | 0.058820 | 0.2383 | 0.06410 |
| 71 | 0.178900 | 0.2551 | 0.06589 |
| 72 | 0.047860 | 0.2254 | 0.10840 |
| 73 | 0.189900 | 0.3313 | 0.13390 |
| 74 | 0.138300 | 0.2589 | 0.10300 |
| 75 | 0.086600 | 0.2618 | 0.07609 |

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|-----|----------|--------|---------|
| 76 | 0.152000 | 0.2650 | 0.06387 |
| 77 | 0.074070 | 0.2710 | 0.07191 |
| 78 | 0.210200 | 0.3751 | 0.11080 |
| 79 | 0.250800 | 0.5440 | 0.09964 |
| 80 | 0.079260 | 0.2779 | 0.07918 |
| 81 | 0.061270 | 0.2762 | 0.08851 |
| 82 | 0.170800 | 0.3527 | 0.10160 |
| 83 | 0.286700 | 0.2355 | 0.10510 |
| 84 | 0.184100 | 0.2311 | 0.09203 |
| 85 | 0.076320 | 0.3379 | 0.07924 |
| 86 | 0.164200 | 0.3695 | 0.08579 |
| 87 | 0.122500 | 0.3020 | 0.06846 |
| 88 | 0.195600 | 0.3956 | 0.09288 |
| 89 | 0.120500 | 0.2972 | 0.09261 |
| 90 | 0.139700 | 0.3151 | 0.08473 |
| 91 | 0.069460 | 0.2522 | 0.07246 |
| 92 | 0.147600 | 0.2556 | 0.06828 |
| 93 | 0.100100 | 0.2027 | 0.06206 |
| 94 | 0.079110 | 0.2678 | 0.06603 |
| 95 | 0.211500 | 0.2834 | 0.08234 |
| 96 | 0.157300 | 0.3689 | 0.08368 |
| 97 | 0.058820 | 0.2227 | 0.07376 |
| 98 | 0.023810 | 0.1934 | 0.08988 |
| 99 | 0.084490 | 0.2772 | 0.08756 |
| 100 | 0.156500 | 0.2718 | 0.09353 |
| 101 | 0.118400 | 0.2651 | 0.07397 |
| 102 | 0.000000 | 0.2932 | 0.09382 |
| 103 | 0.074310 | 0.2694 | 0.06878 |
| 104 | 0.097490 | 0.2622 | 0.08490 |
| 105 | 0.032030 | 0.2826 | 0.07552 |
| 106 | 0.198600 | 0.3147 | 0.14050 |
| 107 | 0.121800 | 0.2806 | 0.09097 |
| 108 | 0.084420 | 0.2983 | 0.07185 |
| 109 | 0.291000 | 0.4055 | 0.09789 |
| 110 | 0.082780 | 0.2829 | 0.08832 |
| 111 | 0.053340 | 0.2533 | 0.08468 |
| 112 | 0.110500 | 0.2226 | 0.08486 |
| 113 | 0.150500 | 0.2398 | 0.10820 |
| 114 | 0.061360 | 0.2383 | 0.09026 |
| 115 | 0.105000 | 0.2926 | 0.10170 |
| 116 | 0.072470 | 0.2438 | 0.08541 |
| 117 | 0.038460 | 0.1652 | 0.07722 |
| 118 | 0.202700 | 0.3585 | 0.10650 |

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|-----|----------|--------|---------|
| 119 | 0.203400 | 0.3274 | 0.12520 |
| 120 | 0.118500 | 0.4882 | 0.06111 |
| 121 | 0.089580 | 0.3016 | 0.08523 |
| 122 | 0.167400 | 0.2894 | 0.08456 |
| 123 | 0.224800 | 0.3222 | 0.08009 |
| 124 | 0.122100 | 0.2889 | 0.08006 |
| 125 | 0.089780 | 0.2048 | 0.07628 |
| 126 | 0.051040 | 0.2364 | 0.07182 |
| 127 | 0.132900 | 0.3470 | 0.07900 |
| 128 | 0.121800 | 0.2841 | 0.06541 |
| 129 | 0.142300 | 0.2590 | 0.07779 |
| 130 | 0.173200 | 0.3305 | 0.08465 |
| 131 | 0.081870 | 0.3469 | 0.09241 |
| 132 | 0.151400 | 0.2837 | 0.08019 |
| 133 | 0.131200 | 0.3480 | 0.07619 |
| 134 | 0.137400 | 0.2723 | 0.07071 |
| 135 | 0.137900 | 0.3109 | 0.07610 |
| 136 | 0.093310 | 0.2829 | 0.08067 |
| 137 | 0.069680 | 0.1712 | 0.07343 |
| 138 | 0.084760 | 0.2676 | 0.06765 |
| 139 | 0.166700 | 0.3414 | 0.07147 |
| 140 | 0.086110 | 0.2102 | 0.06784 |
| 141 | 0.000000 | 0.3105 | 0.08151 |
| 142 | 0.121600 | 0.2792 | 0.08158 |
| 143 | 0.064020 | 0.2584 | 0.08096 |
| 144 | 0.101200 | 0.3549 | 0.08118 |
| 145 | 0.034130 | 0.2300 | 0.06769 |
| 146 | 0.060420 | 0.2727 | 0.10360 |
| 147 | 0.186500 | 0.5774 | 0.10300 |
| 148 | 0.084050 | 0.2852 | 0.09218 |
| 149 | 0.159900 | 0.2691 | 0.07683 |
| 150 | 0.060190 | 0.2350 | 0.07014 |
| 151 | 0.062960 | 0.3196 | 0.06435 |
| 152 | 0.078790 | 0.3322 | 0.14860 |
| 153 | 0.157100 | 0.3108 | 0.12590 |
| 154 | 0.055060 | 0.2859 | 0.06772 |
| 155 | 0.097220 | 0.3849 | 0.08633 |
| 156 | 0.082110 | 0.3113 | 0.08132 |
| 157 | 0.151500 | 0.2463 | 0.07738 |
| 158 | 0.084360 | 0.2527 | 0.05972 |
| 159 | 0.070250 | 0.2514 | 0.07898 |
| 160 | 0.039530 | 0.2738 | 0.07685 |
| 161 | 0.079090 | 0.3168 | 0.07987 |

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| 162 | 0.177700 | 0.2443 | 0.06251 |
| 163 | 0.224700 | 0.3643 | 0.09223 |
| 164 | 0.081940 | 0.2268 | 0.09082 |
| 165 | 0.234600 | 0.3589 | 0.09187 |
| 166 | 0.057540 | 0.2646 | 0.06085 |
| 167 | 0.046030 | 0.2090 | 0.07699 |
| 168 | 0.147400 | 0.2810 | 0.07228 |
| 169 | 0.172100 | 0.2160 | 0.09300 |
| 170 | 0.084850 | 0.2404 | 0.06428 |
| 171 | 0.093910 | 0.2827 | 0.06771 |
| 172 | 0.116000 | 0.2884 | 0.07371 |
| 173 | 0.182700 | 0.3216 | 0.10100 |
| 174 | 0.043060 | 0.1902 | 0.07313 |
| 175 | 0.000000 | 0.2710 | 0.06164 |
| 176 | 0.000000 | 0.2592 | 0.07848 |
| 177 | 0.099100 | 0.2614 | 0.11620 |
| 178 | 0.203500 | 0.3054 | 0.09519 |
| 179 | 0.009259 | 0.2295 | 0.05843 |
| 180 | 0.039900 | 0.1783 | 0.07319 |
| 181 | 0.268800 | 0.2856 | 0.08082 |
| 182 | 0.290300 | 0.4098 | 0.12840 |
| 183 | 0.154100 | 0.3437 | 0.08631 |
| 184 | 0.062960 | 0.1811 | 0.07427 |
| 185 | 0.122600 | 0.3175 | 0.09772 |
| 186 | 0.010420 | 0.2933 | 0.07697 |
| 187 | 0.157100 | 0.3206 | 0.06938 |
| 188 | 0.109900 | 0.2572 | 0.07097 |
| 189 | 0.043060 | 0.3200 | 0.06576 |
| 190 | 0.048150 | 0.2482 | 0.06306 |
| 191 | 0.177200 | 0.5166 | 0.14460 |
| 192 | 0.047730 | 0.2179 | 0.06871 |
| 193 | 0.000000 | 0.1909 | 0.06559 |
| 194 | 0.145900 | 0.3215 | 0.12050 |
| 195 | 0.172700 | 0.3000 | 0.08701 |
| 196 | 0.082350 | 0.3024 | 0.06949 |
| 197 | 0.167300 | 0.3080 | 0.09333 |
| 198 | 0.091810 | 0.2369 | 0.06558 |
| 199 | 0.170800 | 0.3193 | 0.09221 |
| 200 | 0.183800 | 0.4753 | 0.10130 |
| 201 | 0.108000 | 0.2668 | 0.08174 |
| 202 | 0.193900 | 0.2928 | 0.07867 |
| 203 | 0.273300 | 0.3198 | 0.08762 |
| 204 | 0.201300 | 0.4432 | 0.10860 |

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| 205 | 0.101500 | 0.3014 | 0.08750 |
| 206 | 0.125200 | 0.3415 | 0.09740 |
| 207 | 0.055880 | 0.2989 | 0.07380 |
| 208 | 0.109600 | 0.3275 | 0.06469 |
| 209 | 0.112600 | 0.4128 | 0.10760 |
| 210 | 0.103500 | 0.2320 | 0.07474 |
| 211 | 0.192000 | 0.2909 | 0.05865 |
| 212 | 0.069130 | 0.2535 | 0.07993 |
| 213 | 0.159500 | 0.1648 | 0.05525 |
| 214 | 0.109900 | 0.1603 | 0.06818 |
| 215 | 0.177200 | 0.4724 | 0.10260 |
| 216 | 0.165400 | 0.3630 | 0.10590 |
| 217 | 0.113800 | 0.3397 | 0.08365 |
| 218 | 0.035710 | 0.2868 | 0.07809 |
| 219 | 0.182000 | 0.3070 | 0.08255 |
| 220 | 0.162500 | 0.2713 | 0.07568 |
| 221 | 0.080560 | 0.2380 | 0.08718 |
| 222 | 0.090900 | 0.3065 | 0.08177 |
| 223 | 0.055750 | 0.3055 | 0.08797 |
| 224 | 0.147900 | 0.3993 | 0.10640 |
| 225 | 0.096780 | 0.2506 | 0.07623 |
| 226 | 0.108700 | 0.3062 | 0.06072 |
| 227 | 0.044640 | 0.2615 | 0.08269 |
| 228 | 0.137900 | 0.2954 | 0.08362 |
| 229 | 0.118000 | 0.2826 | 0.09585 |
| 230 | 0.197700 | 0.3407 | 0.12430 |
| 231 | 0.254300 | 0.3109 | 0.09061 |
| 232 | 0.020830 | 0.2849 | 0.07087 |
| 233 | 0.030020 | 0.2911 | 0.07307 |
| 234 | 0.156300 | 0.2437 | 0.08328 |
| 235 | 0.072220 | 0.2757 | 0.08178 |
| 236 | 0.079630 | 0.2226 | 0.07617 |
| 237 | 0.259300 | 0.3103 | 0.08677 |
| 238 | 0.144500 | 0.2238 | 0.07127 |
| 239 | 0.082190 | 0.1890 | 0.07796 |
| 240 | 0.206600 | 0.2853 | 0.08496 |
| 241 | 0.092220 | 0.2530 | 0.06510 |
| 242 | 0.040520 | 0.2901 | 0.06783 |
| 243 | 0.121800 | 0.3308 | 0.12970 |
| 244 | 0.061060 | 0.2663 | 0.06321 |
| 245 | 0.156400 | 0.2920 | 0.07614 |
| 246 | 0.067360 | 0.2883 | 0.07748 |
| 247 | 0.049700 | 0.2767 | 0.07198 |

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| 248 | 0.156100 | 0.2639 | 0.11780 |
| 249 | 0.061360 | 0.3409 | 0.08147 |
| 250 | 0.096080 | 0.2664 | 0.07809 |
| 251 | 0.210500 | 0.3126 | 0.07849 |
| 252 | 0.065440 | 0.2740 | 0.06487 |
| 253 | 0.250700 | 0.2749 | 0.12970 |
| 254 | 0.185700 | 0.3138 | 0.08113 |
| 255 | 0.199900 | 0.3379 | 0.08950 |
| 256 | 0.137400 | 0.3068 | 0.07957 |
| 257 | 0.194100 | 0.2818 | 0.10050 |
| 258 | 0.222900 | 0.3258 | 0.11910 |
| 259 | 0.246200 | 0.3277 | 0.10190 |
| 260 | 0.201400 | 0.3512 | 0.12040 |
| 261 | 0.169700 | 0.3151 | 0.07999 |
| 262 | 0.082350 | 0.2452 | 0.06515 |
| 263 | 0.152800 | 0.3067 | 0.07484 |
| 264 | 0.085680 | 0.2683 | 0.06829 |
| 265 | 0.198400 | 0.3216 | 0.07570 |
| 266 | 0.165900 | 0.2868 | 0.08218 |
| 267 | 0.079260 | 0.2940 | 0.07587 |
| 268 | 0.061890 | 0.2446 | 0.07024 |
| 269 | 0.057800 | 0.3604 | 0.07062 |
| 270 | 0.086000 | 0.2605 | 0.08701 |
| 271 | 0.033330 | 0.2458 | 0.06120 |
| 272 | 0.087500 | 0.2733 | 0.08022 |
| 273 | 0.184100 | 0.2833 | 0.08858 |
| 274 | 0.051590 | 0.2841 | 0.08175 |
| 275 | 0.113600 | 0.2504 | 0.07948 |
| 276 | 0.089460 | 0.2220 | 0.06033 |
| 277 | 0.011110 | 0.2758 | 0.06386 |
| 278 | 0.129400 | 0.2567 | 0.05737 |
| 279 | 0.051850 | 0.2335 | 0.06263 |
| 280 | 0.099930 | 0.2955 | 0.06912 |
| 281 | 0.187200 | 0.3258 | 0.09720 |
| 282 | 0.082900 | 0.3101 | 0.06688 |
| 283 | 0.225200 | 0.3590 | 0.07787 |
| 284 | 0.173200 | 0.2770 | 0.10630 |
| 285 | 0.101700 | 0.1999 | 0.07127 |
| 286 | 0.008772 | 0.2505 | 0.06431 |
| 287 | 0.115500 | 0.2465 | 0.09981 |
| 288 | 0.053660 | 0.2309 | 0.06915 |
| 289 | 0.093140 | 0.2955 | 0.07009 |
| 290 | 0.062030 | 0.3267 | 0.06994 |

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| 291 | 0.102100 | 0.2272 | 0.08799 |
| 292 | 0.148900 | 0.2962 | 0.08472 |
| 293 | 0.105600 | 0.3380 | 0.09584 |
| 294 | 0.091400 | 0.3101 | 0.07007 |
| 295 | 0.063430 | 0.2369 | 0.06922 |
| 296 | 0.058020 | 0.2823 | 0.06794 |
| 297 | 0.031940 | 0.2143 | 0.06643 |
| 298 | 0.071600 | 0.1978 | 0.06915 |
| 299 | 0.075300 | 0.2636 | 0.07676 |
| 300 | 0.031250 | 0.2227 | 0.06777 |
| 301 | 0.198000 | 0.2968 | 0.09929 |
| 302 | 0.076250 | 0.2685 | 0.07764 |
| 303 | 0.192300 | 0.3294 | 0.09469 |
| 304 | 0.065280 | 0.2213 | 0.07842 |
| 305 | 0.055090 | 0.2208 | 0.07638 |
| 306 | 0.048150 | 0.3244 | 0.06745 |
| 307 | 0.025000 | 0.2651 | 0.08385 |
| 308 | 0.013890 | 0.2991 | 0.07804 |
| 309 | 0.022100 | 0.2267 | 0.06192 |
| 310 | 0.035320 | 0.2107 | 0.06580 |
| 311 | 0.057410 | 0.3487 | 0.06958 |
| 312 | 0.058130 | 0.2530 | 0.05695 |
| 313 | 0.084110 | 0.2564 | 0.08253 |
| 314 | 0.047150 | 0.3390 | 0.07434 |
| 315 | 0.000000 | 0.3142 | 0.08116 |
| 316 | 0.027840 | 0.1917 | 0.06174 |
| 317 | 0.018520 | 0.2293 | 0.06037 |
| 318 | 0.177600 | 0.2812 | 0.08198 |
| 319 | 0.114500 | 0.3135 | 0.10550 |
| 320 | 0.028320 | 0.1901 | 0.05932 |
| 321 | 0.097440 | 0.2608 | 0.09702 |
| 322 | 0.142500 | 0.3055 | 0.05933 |
| 323 | 0.115500 | 0.2382 | 0.08553 |
| 324 | 0.268500 | 0.5558 | 0.10240 |
| 325 | 0.055560 | 0.2661 | 0.07961 |
| 326 | 0.056020 | 0.2688 | 0.06888 |
| 327 | 0.058900 | 0.2100 | 0.07083 |
| 328 | 0.027960 | 0.2171 | 0.07037 |
| 329 | 0.158300 | 0.3103 | 0.08200 |
| 330 | 0.104700 | 0.2736 | 0.07953 |
| 331 | 0.198100 | 0.3019 | 0.09124 |
| 332 | 0.098580 | 0.3596 | 0.09166 |
| 333 | 0.020220 | 0.3292 | 0.06522 |

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| 334 | 0.016670 | 0.2815 | 0.07418 |
| 335 | 0.039830 | 0.2554 | 0.07207 |
| 336 | 0.182700 | 0.2623 | 0.07599 |
| 337 | 0.058500 | 0.2432 | 0.10090 |
| 338 | 0.204800 | 0.3679 | 0.09870 |
| 339 | 0.064990 | 0.2894 | 0.07664 |
| 340 | 0.208900 | 0.2593 | 0.07738 |
| 341 | 0.141400 | 0.3053 | 0.08764 |
| 342 | 0.081200 | 0.2982 | 0.09825 |
| 343 | 0.107500 | 0.3301 | 0.09080 |
| 344 | 0.225500 | 0.4045 | 0.07918 |
| 345 | 0.078640 | 0.2765 | 0.07806 |
| 346 | 0.040740 | 0.2434 | 0.08488 |
| 347 | 0.050930 | 0.2880 | 0.08083 |
| 348 | 0.125100 | 0.3109 | 0.08187 |
| 349 | 0.065480 | 0.2851 | 0.08763 |
| 350 | 0.047660 | 0.3124 | 0.07590 |
| 351 | 0.042620 | 0.2731 | 0.06825 |
| 352 | 0.213500 | 0.4245 | 0.10500 |
| 353 | 0.275600 | 0.3690 | 0.08815 |
| 354 | 0.152600 | 0.2654 | 0.09438 |
| 355 | 0.039220 | 0.2576 | 0.07018 |
| 356 | 0.092650 | 0.2121 | 0.07188 |
| 357 | 0.125800 | 0.3113 | 0.08317 |
| 358 | 0.055560 | 0.2362 | 0.07113 |
| 359 | 0.047620 | 0.2434 | 0.07431 |
| 360 | 0.050520 | 0.2454 | 0.08136 |
| 361 | 0.016350 | 0.2233 | 0.05521 |
| 362 | 0.056140 | 0.2637 | 0.06658 |
| 363 | 0.083120 | 0.2744 | 0.07238 |
| 364 | 0.091230 | 0.2394 | 0.06469 |
| 365 | 0.069870 | 0.2741 | 0.07582 |
| 366 | 0.176500 | 0.2609 | 0.06735 |
| 367 | 0.215200 | 0.3271 | 0.07632 |
| 368 | 0.088290 | 0.3218 | 0.07470 |
| 369 | 0.182000 | 0.2510 | 0.06494 |
| 370 | 0.243200 | 0.2741 | 0.08574 |
| 371 | 0.224800 | 0.4824 | 0.09614 |
| 372 | 0.081780 | 0.2487 | 0.06766 |
| 373 | 0.196600 | 0.2730 | 0.08666 |
| 374 | 0.211200 | 0.2689 | 0.07055 |
| 375 | 0.069870 | 0.3323 | 0.07701 |
| 376 | 0.125100 | 0.3153 | 0.08960 |

| | | | |
|-----|----------|--------|---------|
| 377 | 0.146500 | 0.2597 | 0.12000 |
| 378 | 0.057810 | 0.2694 | 0.07061 |
| 379 | 0.105400 | 0.3387 | 0.09638 |
| 380 | 0.252400 | 0.4154 | 0.14030 |
| 381 | 0.131800 | 0.3343 | 0.09215 |
| 382 | 0.067540 | 0.3202 | 0.07287 |
| 383 | 0.109200 | 0.2191 | 0.09349 |
| 384 | 0.098040 | 0.2819 | 0.11180 |
| 385 | 0.091730 | 0.2736 | 0.07320 |
| 386 | 0.135900 | 0.2477 | 0.06836 |
| 387 | 0.091400 | 0.2677 | 0.08824 |
| 388 | 0.045370 | 0.2542 | 0.06623 |
| 389 | 0.082720 | 0.2157 | 0.10430 |
| 390 | 0.182500 | 0.2576 | 0.07602 |
| 391 | 0.066960 | 0.2937 | 0.07722 |
| 392 | 0.000000 | 0.2445 | 0.08865 |
| 393 | 0.212100 | 0.3187 | 0.10190 |
| 394 | 0.242200 | 0.3828 | 0.10070 |
| 395 | 0.062660 | 0.3049 | 0.07081 |
| 396 | 0.079110 | 0.2523 | 0.06609 |
| 397 | 0.145300 | 0.2666 | 0.07686 |
| 398 | 0.082960 | 0.1988 | 0.07053 |
| 399 | 0.055560 | 0.2590 | 0.09158 |
| 400 | 0.053560 | 0.2779 | 0.08121 |
| 401 | 0.196400 | 0.3245 | 0.11980 |
| 402 | 0.068760 | 0.2460 | 0.07262 |
| 403 | 0.066080 | 0.3207 | 0.07247 |
| 404 | 0.083880 | 0.3297 | 0.07834 |
| 405 | 0.047930 | 0.2298 | 0.05974 |
| 406 | 0.078870 | 0.2251 | 0.07732 |
| 407 | 0.112900 | 0.2778 | 0.07012 |
| 408 | 0.056010 | 0.2488 | 0.08151 |
| 409 | 0.197400 | 0.3060 | 0.08503 |
| 410 | 0.095320 | 0.3455 | 0.06896 |
| 411 | 0.086980 | 0.2973 | 0.07745 |
| 412 | 0.074310 | 0.2998 | 0.07881 |
| 413 | 0.025640 | 0.2376 | 0.09206 |
| 414 | 0.130800 | 0.3163 | 0.09251 |
| 415 | 0.065750 | 0.3233 | 0.06165 |
| 416 | 0.082630 | 0.3075 | 0.07351 |
| 417 | 0.037700 | 0.2872 | 0.08304 |
| 418 | 0.213400 | 0.3003 | 0.10480 |
| 419 | 0.082240 | 0.2775 | 0.09464 |

| | | | |
|-----|----------|--------|---------|
| 420 | 0.043060 | 0.2976 | 0.07123 |
| 421 | 0.066640 | 0.3035 | 0.08284 |
| 422 | 0.110800 | 0.2827 | 0.09208 |
| 423 | 0.110500 | 0.2787 | 0.07427 |
| 424 | 0.140700 | 0.2744 | 0.08839 |
| 425 | 0.045890 | 0.3196 | 0.08009 |
| 426 | 0.025790 | 0.2349 | 0.08061 |
| 427 | 0.093100 | 0.3020 | 0.09646 |
| 428 | 0.074850 | 0.2965 | 0.07662 |
| 429 | 0.040440 | 0.2383 | 0.07083 |
| 430 | 0.036120 | 0.2165 | 0.06025 |
| 431 | 0.247500 | 0.2866 | 0.11550 |
| 432 | 0.073700 | 0.2556 | 0.09359 |
| 433 | 0.217300 | 0.3032 | 0.08075 |
| 434 | 0.170800 | 0.3007 | 0.08314 |
| 435 | 0.079710 | 0.2525 | 0.06827 |
| 436 | 0.182700 | 0.3179 | 0.10550 |
| 437 | 0.063840 | 0.3313 | 0.07735 |
| 438 | 0.074530 | 0.2725 | 0.07234 |
| 439 | 0.058900 | 0.2513 | 0.06911 |
| 440 | 0.082160 | 0.2136 | 0.06710 |
| 441 | 0.155500 | 0.2540 | 0.09532 |
| 442 | 0.173900 | 0.2500 | 0.07944 |
| 443 | 0.033120 | 0.1859 | 0.06810 |
| 444 | 0.022220 | 0.2699 | 0.06736 |
| 445 | 0.153500 | 0.2842 | 0.08225 |
| 446 | 0.120200 | 0.2599 | 0.08251 |
| 447 | 0.197000 | 0.2972 | 0.09075 |
| 448 | 0.083080 | 0.3600 | 0.07285 |
| 449 | 0.095940 | 0.2471 | 0.07463 |
| 450 | 0.228000 | 0.2268 | 0.07425 |
| 451 | 0.087500 | 0.2305 | 0.09952 |
| 452 | 0.146600 | 0.2293 | 0.06091 |
| 453 | 0.071160 | 0.2447 | 0.08194 |
| 454 | 0.106900 | 0.2606 | 0.07810 |
| 455 | 0.098510 | 0.3270 | 0.07330 |
| 456 | 0.077630 | 0.2196 | 0.07675 |
| 457 | 0.068350 | 0.2884 | 0.07220 |
| 458 | 0.060050 | 0.2444 | 0.06788 |
| 459 | 0.059210 | 0.2306 | 0.06291 |
| 460 | 0.048660 | 0.2321 | 0.07211 |
| 461 | 0.155500 | 0.3010 | 0.09060 |
| 462 | 0.262500 | 0.2641 | 0.07427 |

| | | | |
|-----|----------|--------|---------|
| 463 | 0.055630 | 0.2345 | 0.06464 |
| 464 | 0.082880 | 0.3210 | 0.07863 |
| 465 | 0.104500 | 0.2235 | 0.06925 |
| 466 | 0.135700 | 0.2845 | 0.12490 |
| 467 | 0.118100 | 0.2563 | 0.08174 |
| 468 | 0.025000 | 0.3057 | 0.07875 |
| 469 | 0.199600 | 0.2301 | 0.12240 |
| 470 | 0.141600 | 0.2660 | 0.09270 |
| 471 | 0.065600 | 0.3174 | 0.08524 |
| 472 | 0.055470 | 0.2404 | 0.06639 |
| 473 | 0.114700 | 0.2688 | 0.08273 |
| 474 | 0.000000 | 0.2409 | 0.06743 |
| 475 | 0.079660 | 0.2581 | 0.10800 |
| 476 | 0.097830 | 0.3006 | 0.07802 |
| 477 | 0.133900 | 0.2534 | 0.07858 |
| 478 | 0.062220 | 0.2679 | 0.07698 |
| 479 | 0.074310 | 0.2941 | 0.09180 |
| 480 | 0.177500 | 0.3318 | 0.09136 |
| 481 | 0.056900 | 0.2406 | 0.07729 |
| 482 | 0.081500 | 0.2356 | 0.07603 |
| 483 | 0.133500 | 0.3227 | 0.09326 |
| 484 | 0.090770 | 0.2518 | 0.06960 |
| 485 | 0.145200 | 0.2557 | 0.08181 |
| 486 | 0.134200 | 0.3231 | 0.10340 |
| 487 | 0.078280 | 0.2455 | 0.06596 |
| 488 | 0.206000 | 0.3266 | 0.09009 |
| 489 | 0.098150 | 0.2804 | 0.08024 |
| 490 | 0.087370 | 0.4677 | 0.07623 |
| 491 | 0.063350 | 0.3100 | 0.08203 |
| 492 | 0.083410 | 0.1783 | 0.05871 |
| 493 | 0.148900 | 0.3251 | 0.07625 |
| 494 | 0.026800 | 0.2280 | 0.07028 |
| 495 | 0.041950 | 0.2687 | 0.07429 |
| 496 | 0.101700 | 0.2369 | 0.06599 |
| 497 | 0.140700 | 0.3230 | 0.10330 |
| 498 | 0.105300 | 0.3035 | 0.07661 |
| 499 | 0.166300 | 0.2510 | 0.09445 |
| 500 | 0.211300 | 0.2480 | 0.08999 |
| 501 | 0.101800 | 0.2177 | 0.08549 |
| 502 | 0.152100 | 0.3651 | 0.11830 |
| 503 | 0.084110 | 0.3155 | 0.07538 |
| 504 | 0.226400 | 0.2908 | 0.07277 |
| 505 | 0.102500 | 0.3038 | 0.12520 |

| | | | |
|-----|----------|--------|---------|
| 506 | 0.107500 | 0.2848 | 0.13640 |
| 507 | 0.080880 | 0.2709 | 0.08839 |
| 508 | 0.095140 | 0.2780 | 0.11680 |
| 509 | 0.135700 | 0.2300 | 0.07230 |
| 510 | 0.216300 | 0.3013 | 0.10670 |
| 511 | 0.105600 | 0.2604 | 0.09879 |
| 512 | 0.079550 | 0.2334 | 0.06142 |
| 513 | 0.205100 | 0.3585 | 0.11090 |
| 514 | 0.091860 | 0.2626 | 0.07048 |
| 515 | 0.112000 | 0.2282 | 0.06954 |
| 516 | 0.085420 | 0.3060 | 0.06783 |
| 517 | 0.151000 | 0.3074 | 0.07863 |
| 518 | 0.161300 | 0.2549 | 0.09136 |
| 519 | 0.109600 | 0.2582 | 0.08893 |
| 520 | 0.080450 | 0.3071 | 0.08557 |
| 521 | 0.072620 | 0.3681 | 0.08982 |
| 522 | 0.247500 | 0.3157 | 0.09671 |
| 523 | 0.028320 | 0.2557 | 0.07613 |
| 524 | 0.128400 | 0.2849 | 0.09031 |
| 525 | 0.065280 | 0.2502 | 0.09209 |
| 526 | 0.085120 | 0.2983 | 0.10490 |
| 527 | 0.142700 | 0.3518 | 0.08665 |
| 528 | 0.107000 | 0.3110 | 0.07592 |
| 529 | 0.101500 | 0.2160 | 0.07253 |
| 530 | 0.073930 | 0.2781 | 0.08052 |
| 531 | 0.101000 | 0.2478 | 0.07757 |
| 532 | 0.081200 | 0.3206 | 0.08950 |
| 533 | 0.087040 | 0.2806 | 0.07782 |
| 534 | 0.161300 | 0.3220 | 0.06386 |
| 535 | 0.098610 | 0.2289 | 0.08278 |
| 536 | 0.214800 | 0.3077 | 0.07569 |
| 537 | 0.136200 | 0.2698 | 0.08351 |
| 538 | 0.130800 | 0.2803 | 0.09970 |
| 539 | 0.000000 | 0.3058 | 0.09938 |
| 540 | 0.050000 | 0.2790 | 0.10660 |
| 541 | 0.069180 | 0.2329 | 0.08134 |
| 542 | 0.120500 | 0.3187 | 0.10230 |
| 543 | 0.109500 | 0.2722 | 0.06956 |
| 544 | 0.079580 | 0.2473 | 0.06443 |
| 545 | 0.068450 | 0.2249 | 0.08492 |
| 546 | 0.071740 | 0.2642 | 0.06953 |
| 547 | 0.023810 | 0.2681 | 0.07399 |
| 548 | 0.083330 | 0.2691 | 0.09479 |

| | | | |
|-----|----------|--------|---------|
| 549 | 0.038460 | 0.2552 | 0.07920 |
| 550 | 0.032640 | 0.3059 | 0.07626 |
| 551 | 0.000000 | 0.2458 | 0.06592 |
| 552 | 0.064130 | 0.3169 | 0.08032 |
| 553 | 0.064980 | 0.2407 | 0.06484 |
| 554 | 0.025640 | 0.2435 | 0.07393 |
| 555 | 0.064930 | 0.2372 | 0.07242 |
| 556 | 0.091270 | 0.2226 | 0.08283 |
| 557 | 0.022320 | 0.2262 | 0.06742 |
| 558 | 0.000000 | 0.2475 | 0.06969 |
| 559 | 0.110500 | 0.2258 | 0.08004 |
| 560 | 0.096530 | 0.2112 | 0.08732 |
| 561 | 0.104800 | 0.2250 | 0.08321 |
| 562 | 0.000000 | 0.1566 | 0.05905 |
| 563 | 0.235600 | 0.4089 | 0.14090 |
| 564 | 0.254200 | 0.2929 | 0.09873 |
| 565 | 0.221600 | 0.2060 | 0.07115 |
| 566 | 0.162800 | 0.2572 | 0.06637 |
| 567 | 0.141800 | 0.2218 | 0.07820 |
| 568 | 0.265000 | 0.4087 | 0.12400 |
| 569 | 0.000000 | 0.2871 | 0.07039 |

```
fna.data <- "WisconsinCancer.csv"
wisc.df <- read.csv(fna.data, row.names=1)
```

make sure we do not include the patient/sample ID (rownames) or diagnosis columns that we analyze below.

```
diagnosis <- as.factor(wisc.df$diagnosis)
wisc.data <- wisc.df[,-1]
dim(wisc.data)
```

```
[1] 569 30
```

```
head(wisc.data)
```

| | radius_mean | texture_mean | perimeter_mean | area_mean | smoothness_mean |
|--------|-------------|--------------|----------------|-----------|-----------------|
| 842302 | 17.99 | 10.38 | 122.80 | 1001.0 | 0.11840 |

| | | | | | |
|---|----------|----------|---------|---------|--------------|
| 842517 | 20.57 | 17.77 | 132.90 | 1326.0 | 0.08474 |
| 84300903 | 19.69 | 21.25 | 130.00 | 1203.0 | 0.10960 |
| 84348301 | 11.42 | 20.38 | 77.58 | 386.1 | 0.14250 |
| 84358402 | 20.29 | 14.34 | 135.10 | 1297.0 | 0.10030 |
| 843786 | 12.45 | 15.70 | 82.57 | 477.1 | 0.12780 |
| compactness_mean concavity_mean concave.points_mean symmetry_mean | | | | | |
| 842302 | 0.27760 | 0.3001 | | 0.14710 | 0.2419 |
| 842517 | 0.07864 | 0.0869 | | 0.07017 | 0.1812 |
| 84300903 | 0.15990 | 0.1974 | | 0.12790 | 0.2069 |
| 84348301 | 0.28390 | 0.2414 | | 0.10520 | 0.2597 |
| 84358402 | 0.13280 | 0.1980 | | 0.10430 | 0.1809 |
| 843786 | 0.17000 | 0.1578 | | 0.08089 | 0.2087 |
| fractal_dimension_mean radius_se texture_se perimeter_se area_se | | | | | |
| 842302 | | 0.07871 | 1.0950 | 0.9053 | 8.589 153.40 |
| 842517 | | 0.05667 | 0.5435 | 0.7339 | 3.398 74.08 |
| 84300903 | | 0.05999 | 0.7456 | 0.7869 | 4.585 94.03 |
| 84348301 | | 0.09744 | 0.4956 | 1.1560 | 3.445 27.23 |
| 84358402 | | 0.05883 | 0.7572 | 0.7813 | 5.438 94.44 |
| 843786 | | 0.07613 | 0.3345 | 0.8902 | 2.217 27.19 |
| smoothness_se compactness_se concavity_se concave.points_se | | | | | |
| 842302 | 0.006399 | 0.04904 | 0.05373 | | 0.01587 |
| 842517 | 0.005225 | 0.01308 | 0.01860 | | 0.01340 |
| 84300903 | 0.006150 | 0.04006 | 0.03832 | | 0.02058 |
| 84348301 | 0.009110 | 0.07458 | 0.05661 | | 0.01867 |
| 84358402 | 0.011490 | 0.02461 | 0.05688 | | 0.01885 |
| 843786 | 0.007510 | 0.03345 | 0.03672 | | 0.01137 |
| symmetry_se fractal_dimension_se radius_worst texture_worst | | | | | |
| 842302 | 0.03003 | 0.006193 | 25.38 | | 17.33 |
| 842517 | 0.01389 | 0.003532 | 24.99 | | 23.41 |
| 84300903 | 0.02250 | 0.004571 | 23.57 | | 25.53 |
| 84348301 | 0.05963 | 0.009208 | 14.91 | | 26.50 |
| 84358402 | 0.01756 | 0.005115 | 22.54 | | 16.67 |
| 843786 | 0.02165 | 0.005082 | 15.47 | | 23.75 |
| perimeter_worst area_worst smoothness_worst compactness_worst | | | | | |
| 842302 | 184.60 | 2019.0 | 0.1622 | | 0.6656 |
| 842517 | 158.80 | 1956.0 | 0.1238 | | 0.1866 |
| 84300903 | 152.50 | 1709.0 | 0.1444 | | 0.4245 |
| 84348301 | 98.87 | 567.7 | 0.2098 | | 0.8663 |
| 84358402 | 152.20 | 1575.0 | 0.1374 | | 0.2050 |
| 843786 | 103.40 | 741.6 | 0.1791 | | 0.5249 |
| concavity_worst concave.points_worst symmetry_worst | | | | | |
| 842302 | 0.7119 | | 0.2654 | | 0.4601 |
| 842517 | 0.2416 | | 0.1860 | | 0.2750 |

| | | | |
|-------------------------|---------|--------|--------|
| 84300903 | 0.4504 | 0.2430 | 0.3613 |
| 84348301 | 0.6869 | 0.2575 | 0.6638 |
| 84358402 | 0.4000 | 0.1625 | 0.2364 |
| 843786 | 0.5355 | 0.1741 | 0.3985 |
| fractal_dimension_worst | | | |
| 842302 | 0.11890 | | |
| 842517 | 0.08902 | | |
| 84300903 | 0.08758 | | |
| 84348301 | 0.17300 | | |
| 84358402 | 0.07678 | | |
| 843786 | 0.12440 | | |

Exploratory Data Analysis

Q1. How many observations are in this dataset?

There are `nrow(wisc.data)` observations/samples/patients in the dataset. 569

Q2. How many of the observations have a malignant diagnosis?

```
sum(wisc.df$diagnosis == "M")
```

```
[1] 212
```

```
table(wisc.df$diagnosis)
```

```

  B    M
357 212

```

Q3. How many variables/features in the data are suffixed with `_mean`?

```
colnames(wisc.data)
```

```

[1] "radius_mean"      "texture_mean"
[3] "perimeter_mean"   "area_mean"
[5] "smoothness_mean"  "compactness_mean"
[7] "concavity_mean"    "concave.points_mean"
[9] "symmetry_mean"     "fractal_dimension_mean"
[11] "radius_se"         "texture_se"
[13] "perimeter_se"      "area_se"

```



```
[15] "smoothness_se"          "compactness_se"
[17] "concavity_se"           "concave.points_se"
[19] "symmetry_se"            "fractal_dimension_se"
[21] "radius_worst"           "texture_worst"
[23] "perimeter_worst"        "area_worst"
[25] "smoothness_worst"       "compactness_worst"
[27] "concavity_worst"        "concave.points_worst"
[29] "symmetry_worst"         "fractal_dimension_worst"
```

```
#colnames(wisc.data)
grep("_mean", colnames(wisc.data))
```

```
[1] 1 2 3 4 5 6 7 8 9 10
```

```
#colnames(wisc.data)
grep("_mean", colnames(wisc.data), value =T)
```

```
[1] "radius_mean"          "texture_mean"          "perimeter_mean"
[4] "area_mean"            "smoothness_mean"       "compactness_mean"
[7] "concavity_mean"       "concave.points_mean"   "symmetry_mean"
[10] "fractal_dimension_mean"
```

```
#colnames(wisc.data)
sum(grep("_mean", colnames(wisc.data)))
```

```
[1] 55
```

```
#colnames(wisc.data)
length(grep("_mean", colnames(wisc.data)))
```

```
[1] 10
```

Principal Component Analysis

The main function in base R for PCA is called 'prcomp()' (1 requirement, other 2 are optional) – prcomp(x, scale=F, center=T). Scale should always be TRUE to ensure equal contribution from each variable.

```
wisc.pr <- prcomp(wisc.data, scale=TRUE)
summary(wisc.pr)
```

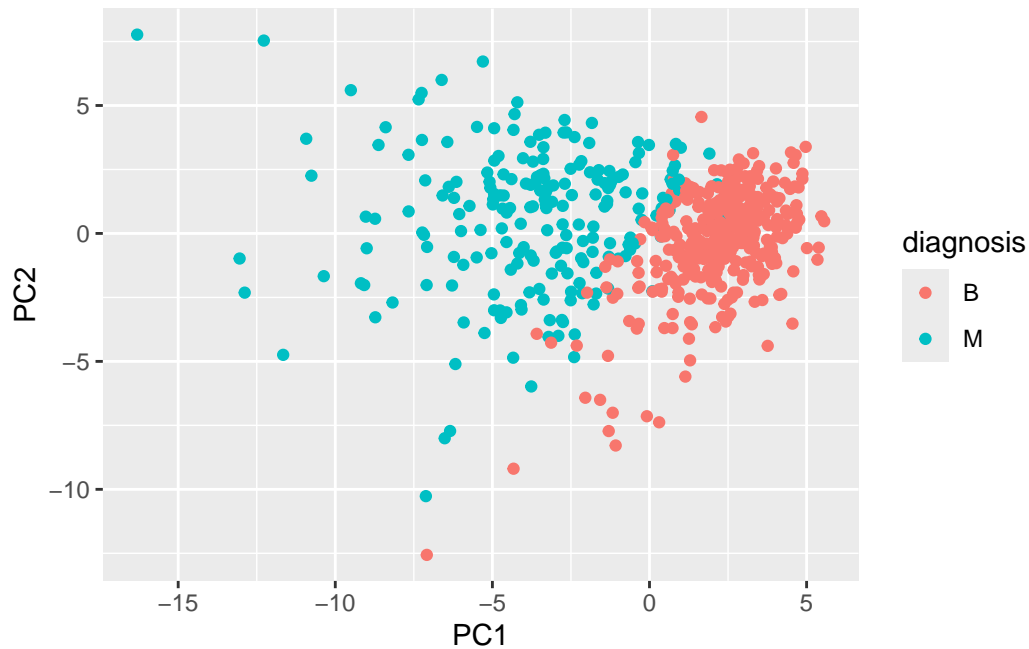
Importance of components:

| | PC1 | PC2 | PC3 | PC4 | PC5 | PC6 | PC7 |
|------------------------|---------|---------|---------|---------|---------|---------|---------|
| Standard deviation | 3.6444 | 2.3857 | 1.67867 | 1.40735 | 1.28403 | 1.09880 | 0.82172 |
| Proportion of Variance | 0.4427 | 0.1897 | 0.09393 | 0.06602 | 0.05496 | 0.04025 | 0.02251 |
| Cumulative Proportion | 0.4427 | 0.6324 | 0.72636 | 0.79239 | 0.84734 | 0.88759 | 0.91010 |
| | PC8 | PC9 | PC10 | PC11 | PC12 | PC13 | PC14 |
| Standard deviation | 0.69037 | 0.6457 | 0.59219 | 0.5421 | 0.51104 | 0.49128 | 0.39624 |
| Proportion of Variance | 0.01589 | 0.0139 | 0.01169 | 0.0098 | 0.00871 | 0.00805 | 0.00523 |
| Cumulative Proportion | 0.92598 | 0.9399 | 0.95157 | 0.9614 | 0.97007 | 0.97812 | 0.98335 |
| | PC15 | PC16 | PC17 | PC18 | PC19 | PC20 | PC21 |
| Standard deviation | 0.30681 | 0.28260 | 0.24372 | 0.22939 | 0.22244 | 0.17652 | 0.1731 |
| Proportion of Variance | 0.00314 | 0.00266 | 0.00198 | 0.00175 | 0.00165 | 0.00104 | 0.0010 |
| Cumulative Proportion | 0.98649 | 0.98915 | 0.99113 | 0.99288 | 0.99453 | 0.99557 | 0.9966 |
| | PC22 | PC23 | PC24 | PC25 | PC26 | PC27 | PC28 |
| Standard deviation | 0.16565 | 0.15602 | 0.1344 | 0.12442 | 0.09043 | 0.08307 | 0.03987 |
| Proportion of Variance | 0.00091 | 0.00081 | 0.0006 | 0.00052 | 0.00027 | 0.00023 | 0.00005 |
| Cumulative Proportion | 0.99749 | 0.99830 | 0.9989 | 0.99942 | 0.99969 | 0.99992 | 0.99997 |
| | PC29 | PC30 | | | | | |
| Standard deviation | 0.02736 | 0.01153 | | | | | |
| Proportion of Variance | 0.00002 | 0.00000 | | | | | |
| Cumulative Proportion | 1.00000 | 1.00000 | | | | | |

Lets make our main result figure - the “PC plot” or “score plot”, ...

```
library(ggplot2)

ggplot(wisc.pr$x) +
  aes(PC1, PC2, col=diagnosis) +
  geom_point()
```



Q4. From your results, what proportion of the original variance is captured by the first principal components (PC1)?

```
summary(wisc.pr)
```

Importance of components:

| | PC1 | PC2 | PC3 | PC4 | PC5 | PC6 | PC7 |
|------------------------|---------|---------|---------|---------|---------|---------|---------|
| Standard deviation | 3.6444 | 2.3857 | 1.67867 | 1.40735 | 1.28403 | 1.09880 | 0.82172 |
| Proportion of Variance | 0.4427 | 0.1897 | 0.09393 | 0.06602 | 0.05496 | 0.04025 | 0.02251 |
| Cumulative Proportion | 0.4427 | 0.6324 | 0.72636 | 0.79239 | 0.84734 | 0.88759 | 0.91010 |
| | PC8 | PC9 | PC10 | PC11 | PC12 | PC13 | PC14 |
| Standard deviation | 0.69037 | 0.6457 | 0.59219 | 0.5421 | 0.51104 | 0.49128 | 0.39624 |
| Proportion of Variance | 0.01589 | 0.0139 | 0.01169 | 0.0098 | 0.00871 | 0.00805 | 0.00523 |
| Cumulative Proportion | 0.92598 | 0.9399 | 0.95157 | 0.9614 | 0.97007 | 0.97812 | 0.98335 |
| | PC15 | PC16 | PC17 | PC18 | PC19 | PC20 | PC21 |
| Standard deviation | 0.30681 | 0.28260 | 0.24372 | 0.22939 | 0.22244 | 0.17652 | 0.1731 |
| Proportion of Variance | 0.00314 | 0.00266 | 0.00198 | 0.00175 | 0.00165 | 0.00104 | 0.0010 |
| Cumulative Proportion | 0.98649 | 0.98915 | 0.99113 | 0.99288 | 0.99453 | 0.99557 | 0.9966 |
| | PC22 | PC23 | PC24 | PC25 | PC26 | PC27 | PC28 |
| Standard deviation | 0.16565 | 0.15602 | 0.1344 | 0.12442 | 0.09043 | 0.08307 | 0.03987 |
| Proportion of Variance | 0.00091 | 0.00081 | 0.0006 | 0.00052 | 0.00027 | 0.00023 | 0.00005 |
| Cumulative Proportion | 0.99749 | 0.99830 | 0.9989 | 0.99942 | 0.99969 | 0.99992 | 0.99997 |

| | PC29 | PC30 |
|------------------------|---------|---------|
| Standard deviation | 0.02736 | 0.01153 |
| Proportion of Variance | 0.00002 | 0.00000 |
| Cumulative Proportion | 1.00000 | 1.00000 |

44.27%

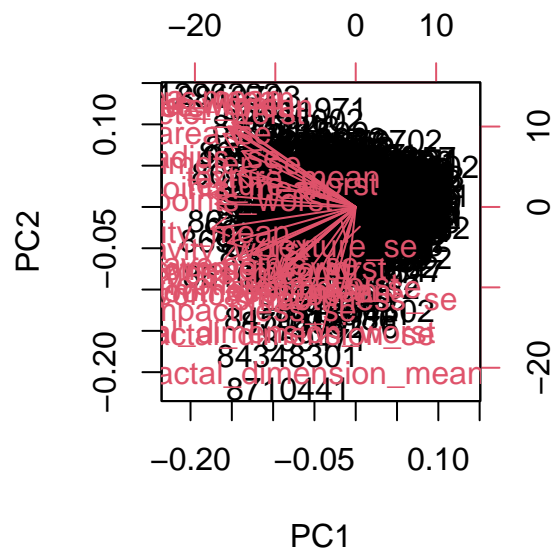
Q5. How many principal components (PCs) are required to describe at least 70% of the original variance in the data?

3

Q6. How many principal components (PCs) are required to describe at least 90% of the original variance in the data?

7

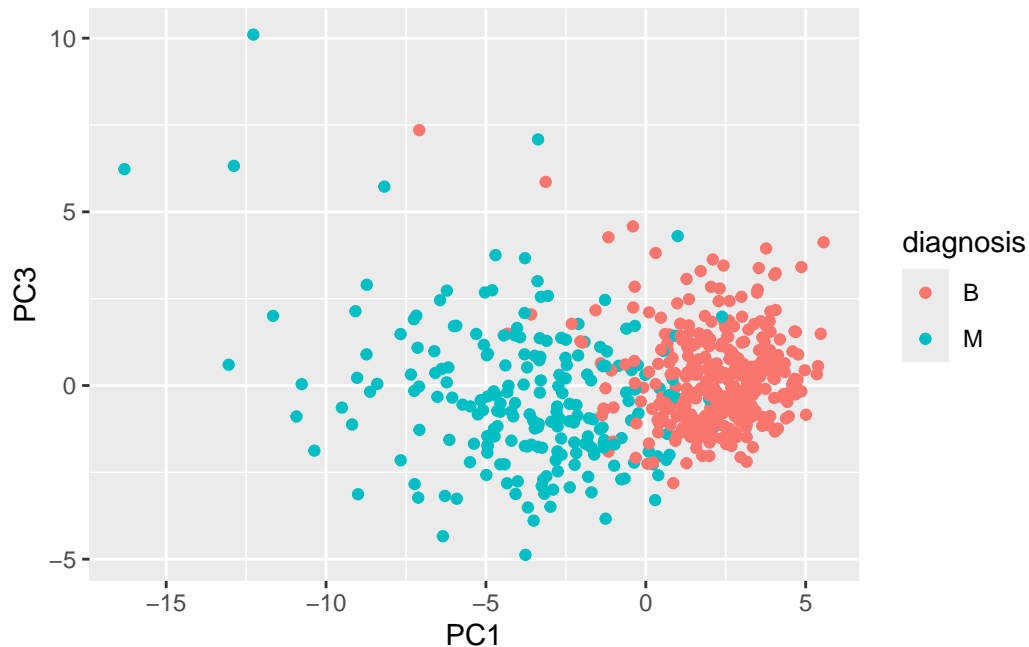
```
biplot(wisc.pr)
```



Q7. What stands out to you about this plot? Is it easy or difficult to understand? Why?

This plot is very hard to read and understand because it is not scaled and it seems to have the original data with the area and radius information included.

```
ggplot(wisc.pr$x) +  
  aes(PC1, PC3, col=diagnosis) +  
  geom_point()
```



Q8. Generate a similar plot for principal components 1 and 3. What do you notice about these plots?

This plot has a bit more mixing of the diagnoses in the middle of the 2 groups and it is not as clearly defined as PC1 vs PC2. This plot has a larger range with its points.

Create a data.frame for ggplot

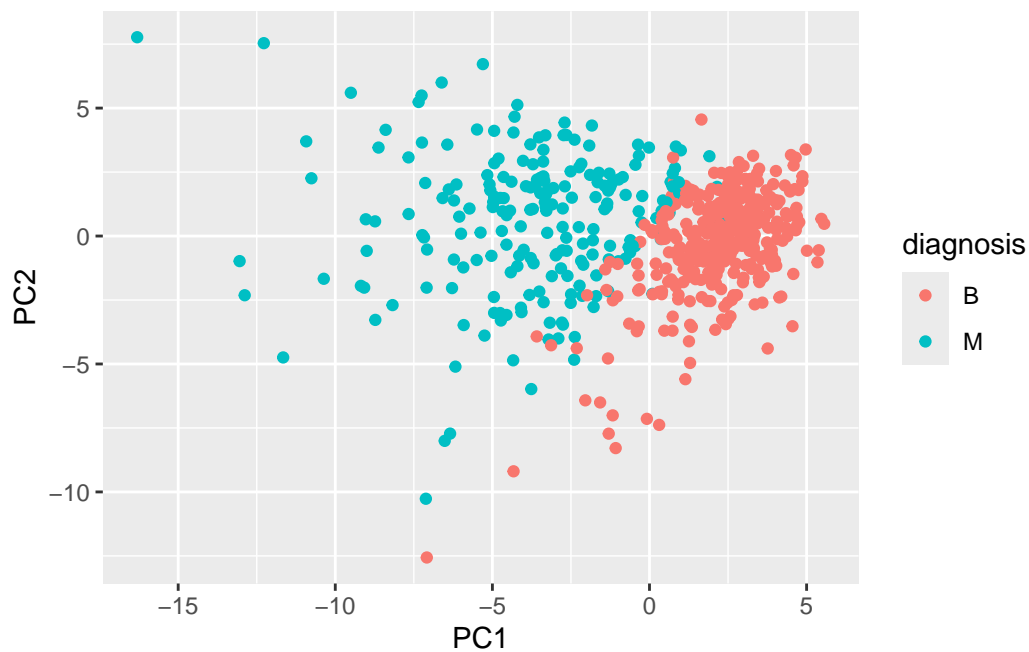
```
df <- as.data.frame(wisc.pr$x)  
df$diagnosis <- diagnosis
```

Load the ggplot2 package

```
library(ggplot2)
```

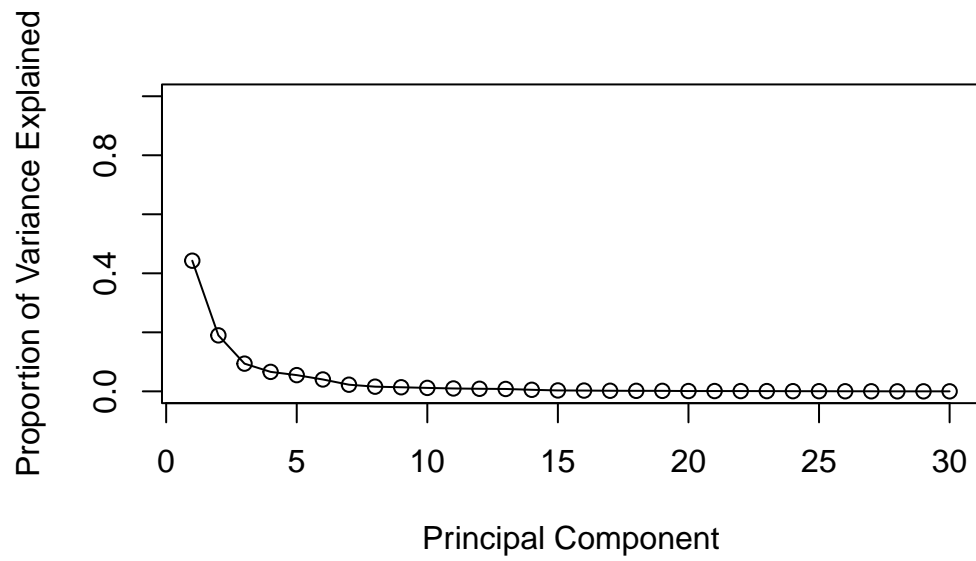
Make a scatter plot colored by diagnosis

```
ggplot(df) +  
  aes(PC1, PC2, col=diagnosis) +  
  geom_point()
```



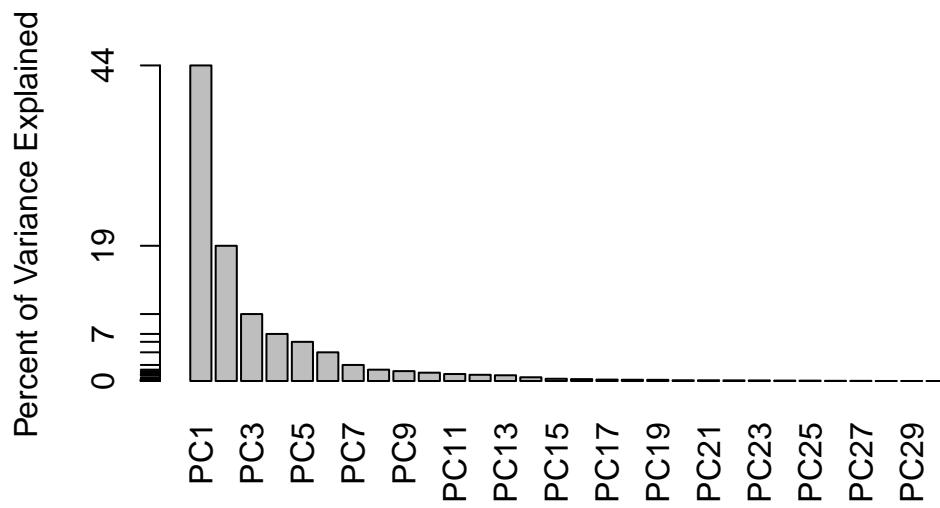
Calculate the variance of each component

```
pr.var <- wisc.pr$sdev^2  
pve <- pr.var / sum(pr.var)  
plot(pve, xlab = "Principal Component",  
      ylab = "Proportion of Variance Explained",  
      ylim = c(0,1), type = "o")
```



Alternative scree plot of the same data, note data driven y-axis

```
barplot(pve, ylab = "Percent of Variance Explained",  
        names.arg = paste0("PC",1:length(pve)), las=2, axes = FALSE)  
axis(2, at=pve, labels=round(pve,2)*100)
```



Q9. For the first principal component, what is the component of the loading vector (i.e. `wisc.pr$rotation[,1]`) for the feature `concave.points_mean`? This tells us how much this original feature contributes to the first PC.

```
wisc.pr$rotation[,1]
```

| | | |
|------------------------|----------------------|-------------------|
| radius_mean | texture_mean | perimeter_mean |
| -0.21890244 | -0.10372458 | -0.22753729 |
| area_mean | smoothness_mean | compactness_mean |
| -0.22099499 | -0.14258969 | -0.23928535 |
| concavity_mean | concave.points_mean | symmetry_mean |
| -0.25840048 | -0.26085376 | -0.13816696 |
| fractal_dimension_mean | radius_se | texture_se |
| -0.06436335 | -0.20597878 | -0.01742803 |
| perimeter_se | area_se | smoothness_se |
| -0.21132592 | -0.20286964 | -0.01453145 |
| compactness_se | concavity_se | concave.points_se |
| -0.17039345 | -0.15358979 | -0.18341740 |
| symmetry_se | fractal_dimension_se | radius_worst |
| -0.04249842 | -0.10256832 | -0.22799663 |
| texture_worst | perimeter_worst | area_worst |
| -0.10446933 | -0.23663968 | -0.22487053 |

| | | |
|----------------------|-------------------|-------------------------|
| smoothness_worst | compactness_worst | concavity_worst |
| -0.12795256 | -0.21009588 | -0.22876753 |
| concave.points_worst | symmetry_worst | fractal_dimension_worst |
| -0.25088597 | -0.12290456 | -0.13178394 |

Concave.points_mean = -0.26

Hierarchical Clustering

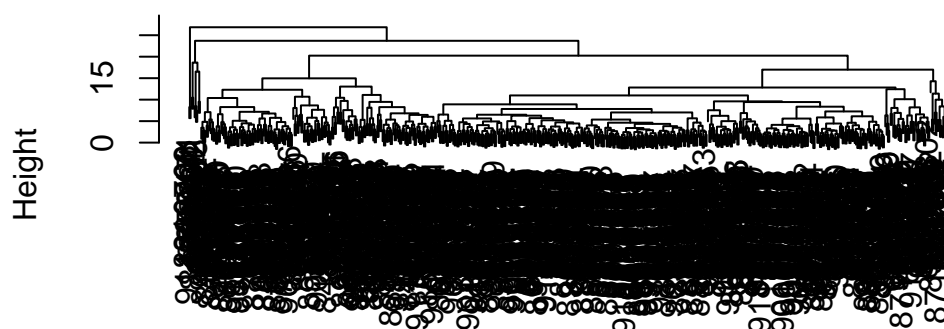
#Scale the wisc.data data using the “scale()” function

```
apply(scale(wisc.data), 2, sd)
```

| | | |
|------------------------|----------------------|-------------------------|
| radius_mean | texture_mean | perimeter_mean |
| 1 | 1 | 1 |
| area_mean | smoothness_mean | compactness_mean |
| 1 | 1 | 1 |
| concavity_mean | concave.points_mean | symmetry_mean |
| 1 | 1 | 1 |
| fractal_dimension_mean | radius_se | texture_se |
| 1 | 1 | 1 |
| perimeter_se | area_se | smoothness_se |
| 1 | 1 | 1 |
| compactness_se | concavity_se | concave.points_se |
| 1 | 1 | 1 |
| symmetry_se | fractal_dimension_se | radius_worst |
| 1 | 1 | 1 |
| texture_worst | perimeter_worst | area_worst |
| 1 | 1 | 1 |
| smoothness_worst | compactness_worst | concavity_worst |
| 1 | 1 | 1 |
| concave.points_worst | symmetry_worst | fractal_dimension_worst |
| 1 | 1 | 1 |

```
d <- dist(scale(wisc.data))
h <- hclust(d)
plot(h)
```

Cluster Dendrogram

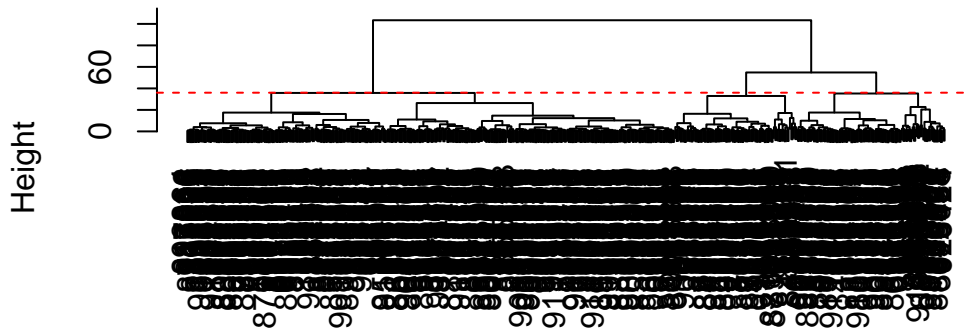


d
hclust (*, "complete")

Combining PCA and clustering

```
d <- dist( wisc.pr$x[,1:3] )  
wisc.pr.hclust <- hclust(d, method="ward.D2")  
plot(wisc.pr.hclust)  
abline(h=36, col="red", lty=2)
```

Cluster Dendrogram



d
hclust (*, "ward.D2")

Q10. Using the `plot()` and `abline()` functions, what is the height at which the clustering model has 4 clusters?

The clustering model has 4 clusters at 35.5

```
wisc.hclust.clusters <- cutree(wisc.pr.hclust, h=35.5)
table(wisc.hclust.clusters)
```

```
wisc.hclust.clusters
  1  2  3  4
111 92 216 150
```

```
table(wisc.hclust.clusters, diagnosis)
```

```

              diagnosis
wisc.hclust.clusters  B   M
1                   0 111
2                  24  68
3                 184  32
4                 149   1
```

Q12. Which method gives your favorite results for the same data.dist dataset? Explain your reasoning.

My favorite was Ward.D2 since the dendrogram was easiest to read. The clusters are clearer and not as compact as in the other methods.

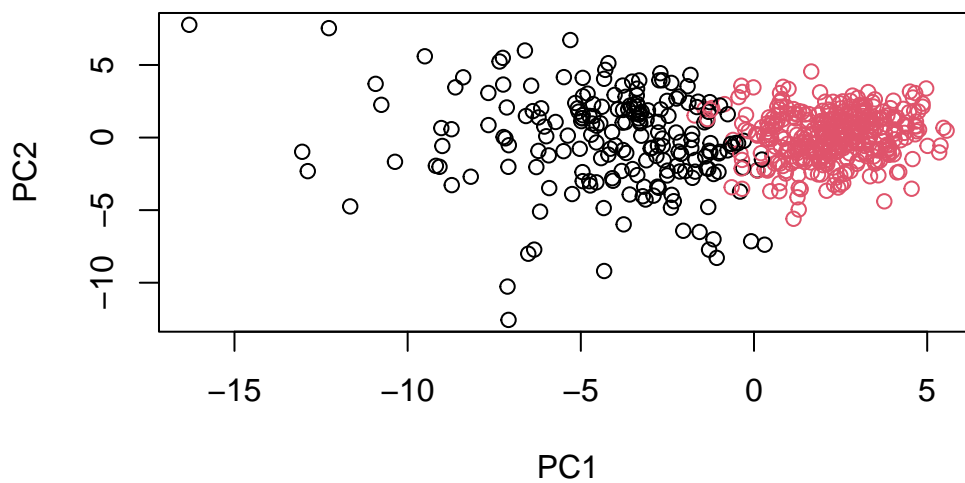
```
grps <- cutree(wisc.pr.hclust, k=2)
table(grps)
```

```
grps
  1  2
203 366
```

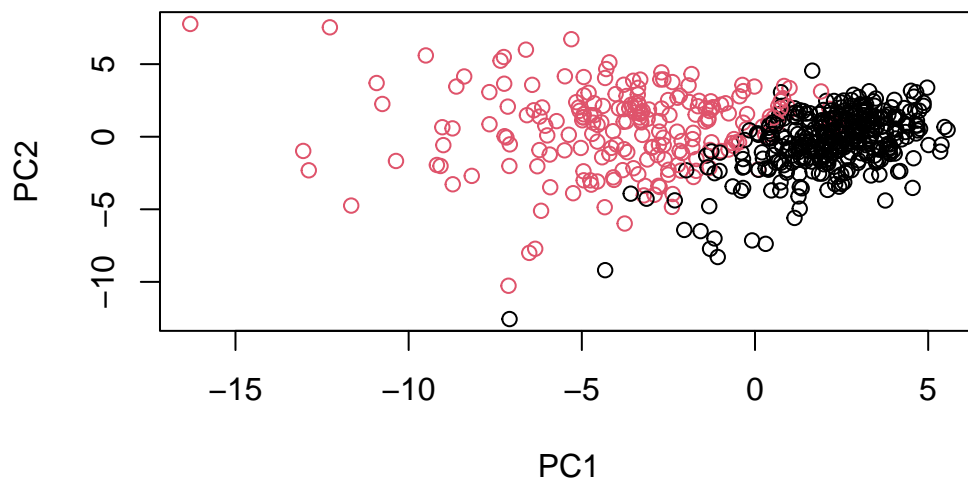
```
table(grps, diagnosis)
```

```
      diagnosis
grps   B    M
  1   24 179
  2  333  33
```

```
plot(wisc.pr$x[,1:2], col=grps)
```



```
plot(wisc.pr$x[,1:2], col=diagnosis)
```



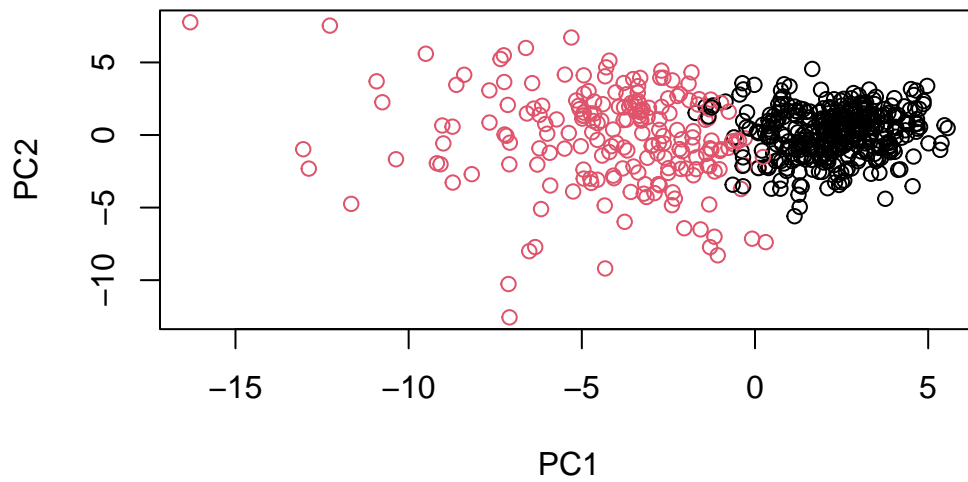
```
g <- as.factor(grps)
levels(g)
```

```
[1] "1" "2"
```

```
g <- relevel(g,2)
levels(g)
```

```
[1] "2" "1"
```

```
plot(wisc.pr$x[,1:2], col=g)
```



Get my cluster membership vector

```
groups <- cutree(wisc.pr.hclust, h=70)
table(groups)
```

```
groups
 1  2
203 366
```

```
table(diagnosis)
```

```
diagnosis
 B  M
357 212
```

Make a wee “cross-table”

```
table(groups, diagnosis)
```

```
      diagnosis
groups  B  M
 1    24 179
 2   333  33
```

True Positive = TP = 179 False Positive = FP = 24

Sensitivity: $TP/(TP+FP)$ specificity: $TN/(TN+FN)$

```
179/(179+24)
```

```
[1] 0.8817734
```

```
333/(333+33)
```

```
[1] 0.9098361
```

```
d <- dist( wisc.pr$x[,1:7] )
wisc.pr.hclust <- hclust(d, method="ward.D2")
wisc.pr.hclust.clusters <- cutree(wisc.pr.hclust, k=2)
table(wisc.pr.hclust.clusters, diagnosis)
```

| | diagnosis | |
|-------------------------|-----------|-----|
| wisc.pr.hclust.clusters | B | M |
| 1 | 28 | 188 |
| 2 | 329 | 24 |

Sensitivity Specificity

```
188/(188+28)
```

```
[1] 0.8703704
```

```
329/(329+24)
```

```
[1] 0.9320113
```

Q13. How well does the newly created model with four clusters separate out the two diagnoses?

The new model separates the 2 diagnoses well, when having 4 clusters rather than 3 as above it adds more data to each diagnosis group. It also adds more to the true positive values.

Q14. How well do the hierarchical clustering models you created in previous sections (i.e. before PCA) do in terms of separating the diagnoses? Again, use the `table()` function to compare the output of each model (`wisc.km$cluster` and `wisc.hclust.clusters`) with the vector containing the actual diagnoses.

```
table(wisc.hclust.clusters, diagnosis)
```

```

              diagnosis
wisc.hclust.clusters  B   M
1         0 111
2        24  68
3       184  32
4       149   1

```

The separation of the diagnoses were mixed and spread out, making it difficult for future data points and patients to be categorized correctly. After the PCA the benign vs malignant groups are much more defined.

Q15. OPTIONAL: Which of your analysis procedures resulted in a clustering model with the best specificity? How about sensitivity?

The clustering that contained PC 1:3 had the best sensitivity but the clustering that contained PC 1:4 had the best specificity.

PREDICTION

```

url <- "https://tinyurl.com/new-samples-CSV"
new <- read.csv(url)
npc <- predict(wisc.pr, newdata=new)
npc

```

```

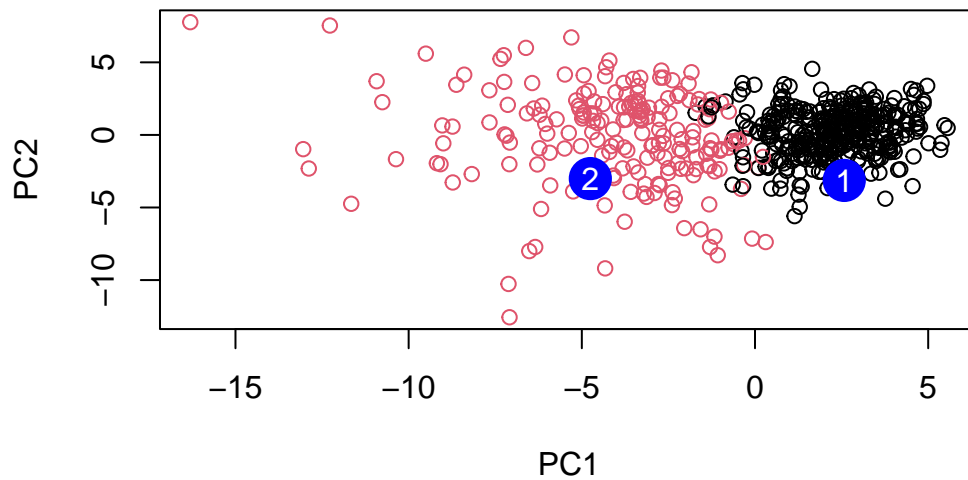
          PC1          PC2          PC3          PC4          PC5          PC6          PC7
[1,]  2.576616 -3.135913  1.3990492 -0.7631950  2.781648 -0.8150185 -0.3959098
[2,] -4.754928 -3.009033 -0.1660946 -0.6052952 -1.140698 -1.2189945  0.8193031
          PC8          PC9          PC10          PC11          PC12          PC13          PC14
[1,] -0.2307350 0.1029569 -0.9272861 0.3411457  0.375921 0.1610764 1.187882
[2,] -0.3307423 0.5281896 -0.4855301 0.7173233 -1.185917 0.5893856 0.303029
          PC15          PC16          PC17          PC18          PC19          PC20
[1,]  0.3216974 -0.1743616 -0.07875393 -0.11207028 -0.08802955 -0.2495216
[2,]  0.1299153  0.1448061 -0.40509706  0.06565549  0.25591230 -0.4289500
          PC21          PC22          PC23          PC24          PC25          PC26
[1,]  0.1228233 0.09358453 0.08347651  0.1223396  0.02124121 0.078884581
[2,] -0.1224776 0.01732146 0.06316631 -0.2338618 -0.20755948 -0.009833238
          PC27          PC28          PC29          PC30

```



```
[1,] 0.220199544 -0.02946023 -0.015620933 0.005269029  
[2,] -0.001134152 0.09638361 0.002795349 -0.019015820
```

```
plot(wisc.pr$x[,1:2], col=g)  
points(npc[,1], npc[,2], col="blue", pch=16, cex=3)  
text(npc[,1], npc[,2], c(1,2), col="white")
```



Q16. Which of these new patients should we prioritize for follow up based on your results?

Based on the results, we should follow up with patient 2.