

Antifungal and Antioomycete Activities of a *Curcuma longa* L. Hydroethanolic Extract Rich in Bisabolene Sesquiterpenoids

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SUPPLEMENTARY MATERIALS

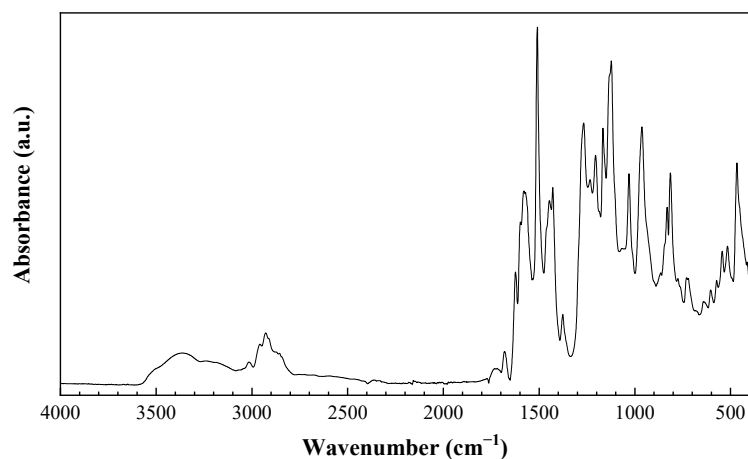


Figure S1. Infrared spectrum of the *C. longa* hydroethanolic extract.

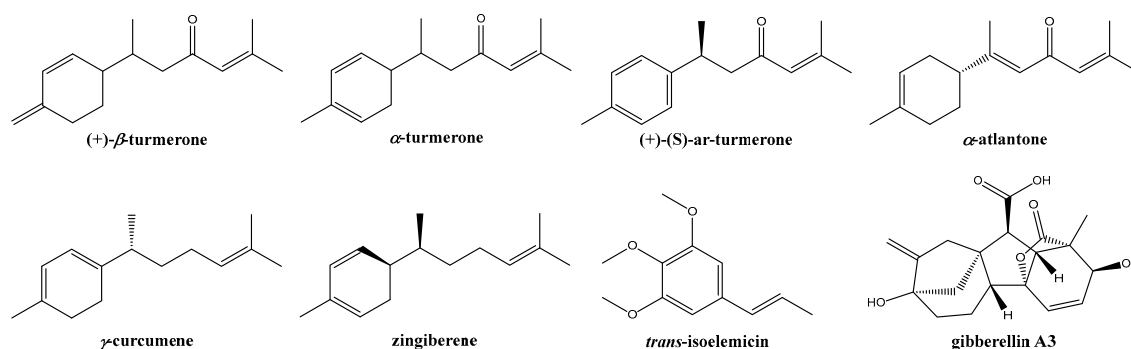


Figure S2. Chemical structures of phytochemicals identified in the hydroethanolic extract of *Curcuma longa* by GC-MS.

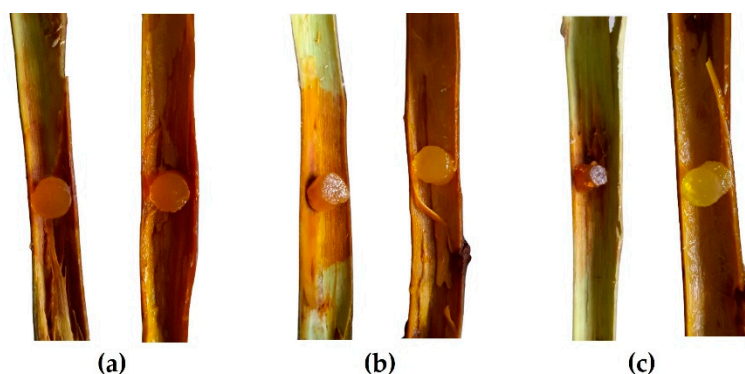


Figure S3. *Malus domestica* cv. (a) 'Golden', (b) 'Starking Delicious', and (c) 'Reinette' stem segments artificially inoculated with *P. cinnamomi* after 4 days of incubation: (left) untreated samples; (right) samples treated with *C. longa* hydroethanolic extract at a 3000 $\mu\text{g}\cdot\text{mL}^{-1}$ dose.

Table S1. Main bands in the infrared spectrum of the *Curcuma longa* hydroethanolic extract and their assignments.

Wavenumber (cm^{-1})	Assignment
3362	O–H stretching
2928	–CH ₂ groups stretching
1680	C=O stretching
1623	overlapping stretching of alkenes (C=C) and carbonyl (C=O)
1578	COO [–] antisymmetric stretching
1509	C=O stretching; CC–C and CC=O in-plane bending; aromatic CC–H in-plane bending and vCC stretching aromatic of keto and enol configurations.
1429	C=C aromatic stretching
1376	methyl groups bending
1267	v(C–O) phenolic bending
1205	CH ₃ symmetric deformation
1167	C=O stretching
1123	C–H bending
1030	C–O vibrations
963	C–H wag absorption (alkenyl)
832	C–H
814	out-of-plane ring bending
730	– (CH ₂) _n – in-phase rocking

Table S2. MS data for the hydroethanolic *C. longa* extract.

Peak	RT (min)	m/z, Abundance
1	10.518	31.1, 354.0; 32.0, 766.0; 35.0, 360.0; 36.0, 1362.0; 38.0, 580.0; 39.0, 415.0; 41.0, 273.0; 43.0, 285.0; 44.0, 515.0; 44.9, 555.0; 50.0, 310.0; 51.0, 654.0; 52.0, 343.0; 53.0, 583.0; 55.0, 270.0; 58.0, 165.0; 58.9, 195.0; 60.9, 232.0; 62.0, 218.0; 63.0, 617.0; 64.0, 215.0; 64.9, 294.0; 67.0, 208.0; 68.0, 592.0; 68.9, 185.0; 73.1, 1282.0; 74.1, 333.0; 75.0, 834.0; 76.0, 221.0; 77.0, 3172.0; 78.1, 723.0; 79.0, 764.0; 80.1, 161.0; 80.9, 361.0; 89.0, 644.0; 91.0, 628.0; 97.0, 161.0; 102.9, 570.0; 104.9, 651.0; 106.0, 233.0; 107.1, 2543.0; 108.0, 290.0; 113.9, 230.0; 115.0, 918.0; 116.8, 458.0; 118.9, 693.0; 120.0, 183.0; 120.9, 472.0; 125.9, 574.0; 133.0, 7507.0; 134.0, 1138.0; 135.0, 9458.0; 136.0, 1113.0; 136.9, 195.0; 137.1, 204.0; 146.9, 426.0; 147.8, 154.0; 150.0, 8829.0; 151.0, 6675.0; 152.0, 814.0; 153.0, 588.0; 155.0, 174.0; 161.0, 242.0; 163.0, 274.0; 165.0, 174.0; 175.9, 1240.0; 177.0, 4289.0; 177.9, 813.0; 179.0, 532.0; 190.9, 459.0; 192.2, 464.0; 193.0, 1108.0; 193.9, 325.0; 194.9, 224.0; 207.0, 1054.0; 207.9, 290.0; 208.9, 290.0; 234.9, 460.0; 235.9, 170.0; 236.9, 257.0; 248.9, 150.0; 251.0, 858.0; 252.0, 246.0; 252.9, 590.0; 267.0, 4478.0; 268.0, 1119.0; 269.0, 769.0; 269.8, 161.0; 281.0, 414.0; 308.0, 455.0; 309.0, 1679.0; 310.0, 484.0; 311.0, 360.0; 325.0, 631.0; 326.0, 215.0; 327.0, 1872.0; 328.0, 567.0; 328.9, 313.0; 341.0, 714.0; 342.0, 251.0; 342.8, 243.0; 369.1, 169.0; 383.0, 469.0; 385.0, 382.0; 386.0, 158.0; 399.1, 714.0; 400.0, 278.0; 401.0, 499.0; 402.0, 175.0; 415.0, 1411.0; 416.0, 543.0; 417.0, 430.0; 457.0, 323.0; 498.1, 1168.0; 499.1, 2365.0; 500.1, 1320.0; 501.2, 788.0; 502.2, 248.0
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8	12.417	133.0, 5662.0; 134.0, 687.0; 135.0, 2618.0; 136.0, 334.0; 137.0, 364.0; 140.9, 159.0; 142.0, 246.0; 143.0, 495.0; 144.0, 280.0; 145.0, 721.0; 146.0, 274.0; 146.9, 530.0; 148.1, 236.0; 148.9, 308.0; 151.0, 4780.0; 152.0, 759.0; 153.0, 397.0; 153.9, 206.0; 155.0, 165.0; 156.0, 155.0; 157.1, 746.0; 158.0, 383.0; 159.1, 166.0; 160.9, 264.0; 163.0, 279.0; 164.0, 380.0; 165.2, 264.0; 166.1, 271.0; 171.1, 242.0; 176.1, 1014.0; 177.0, 4139.0; 178.0, 783.0; 178.9, 551.0; 185.1, 447.0; 187.2, 154.0; 190.9, 370.0; 192.0, 173.0; 193.0, 831.0; 194.0, 160.0; 194.7, 163.0; 195.0, 152.0; 200.2, 726.0; 201.1, 171.0; 201.9, 210.0; 207.0, 1198.0; 207.9, 255.0; 208.9, 295.0; 222.9, 163.0; 234.8, 332.0; 237.0, 197.0; 249.0, 156.0; 250.9, 621.0; 252.9, 721.0; 267.0, 2299.0; 268.0, 641.0; 269.0, 557.0; 281.0, 240.0; 307.9, 310.0; 308.9, 827.0; 309.9, 194.0; 310.9, 168.0; 324.9, 246.0; 327.0, 519.0; 331.1, 223.0; 341.1, 460.0; 415.1, 194.0; 498.1, 186.0; 499.0, 490.0
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14	12.975	31.0, 219.0; 32.0, 674.0; 34.9, 221.0; 36.0, 1125.0; 37.9, 398.0; 39.0, 575.0; 40.1, 192.0; 41.0, 1594.0; 42.1, 301.0; 43.0, 512.0; 44.1, 477.0; 45.1, 344.0; 50.0, 168.0; 51.0, 335.0; 53.0, 460.0; 55.0, 1125.0; 56.1, 519.0; 57.0, 545.0; 58.0, 174.0; 59.0, 180.0; 63.0, 196.0; 65.0, 490.0; 66.0, 216.0; 67.0, 661.0; 68.1, 453.0; 69.1, 1173.0; 70.1, 403.0; 73.0, 595.0; 74.1, 163.0; 75.0, 383.0; 77.1, 2033.0; 78.1, 570.0; 79.0, 1162.0; 80.1, 289.0; 81.0, 607.0; 82.0, 611.0; 83.2, 355.0; 85.1, 158.0; 89.0, 355.0; 91.0, 2950.0; 92.1, 1246.0; 93.0, 2963.0; 94.0, 405.0; 95.0, 341.0; 96.1, 203.0; 102.0, 163.0; 103.0, 722.0; 104.1, 303.0; 105.0, 3326.0; 106.0, 566.0; 107.0, 1221.0; 108.0, 246.0; 109.1, 402.0; 110.0, 191.0; 115.0, 642.0; 116.0, 206.0; 117.0, 916.0; 119.0, 8282.0; 120.0, 1356.0; 121.0, 1825.0; 122.1, 705.0; 126.1, 322.0; 126.9, 200.0; 127.8, 296.0; 129.0, 228.0; 131.0, 363.0; 132.0, 622.0; 133.0, 5629.0; 134.1, 1132.0; 135.0, 2766.0; 135.9, 449.0; 136.9, 252.0; 145.1, 546.0; 146.1, 211.0; 146.9, 794.0; 148.0, 356.0; 148.9, 237.0; 151.0, 3850.0; 152.0, 725.0; 153.0, 424.0; 156.9, 151.0; 159.0, 207.0; 161.1, 1132.0; 162.0, 230.0; 163.0, 407.0; 164.0, 187.0; 174.9, 258.0; 176.0, 1026.0; 177.0, 4095.0; 178.0, 816.0; 178.9, 533.0; 180.1, 215.0; 187.2, 187.0; 188.8, 153.0; 191.1, 3589.0; 192.0, 691.0; 193.0, 854.0;
151	13.052	

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16	13.212	31.0, 393.0; 32.1, 621.0; 35.0, 287.0; 36.0, 1006.0; 38.0, 548.0; 39.1, 1877.0; 40.1, 448.0; 41.1, 6705.0; 42.0, 651.0; 43.1, 1273.0; 43.9, 477.0; 45.0, 349.0; 49.9, 252.0; 51.0, 747.0; 52.0, 398.0; 53.0, 1607.0; 54.1, 422.0; 55.1, 3894.0; 56.0, 648.0; 57.1, 2478.0; 57.9, 174.0; 59.1, 179.0; 59.8, 171.0; 63.0, 407.0; 63.9, 221.0; 65.0, 1526.0; 66.2, 420.0; 67.0, 2303.0; 68.0, 908.0; 69.1, 14174.0; 70.0, 977.0; 71.1, 2443.0; 72.3, 202.0; 73.0, 554.0; 74.9, 402.0; 77.0, 6792.0; 78.1, 1579.0; 79.1, 3765.0; 80.0, 841.0; 81.1, 1870.0; 82.1, 2114.0; 83.0, 531.0; 84.0, 389.0; 85.0, 246.0; 89.1, 381.0; 89.9, 173.0; 91.1, 9520.0; 92.1, 5659.0; 93.1, 10282.0; 94.0, 1817.0; 95.0, 1417.0; 96.1, 369.0; 97.1, 296.0; 102.2, 200.0; 103.0, 754.0; 104.1, 389.0; 105.0, 4195.0; 106.0, 1653.0; 107.1, 1671.0; 108.1, 417.0; 109.1, 5095.0; 110.0, 612.0; 111.0, 281.0; 112.1, 1431.0; 113.2, 649.0; 115.0, 862.0; 116.1, 206.0; 116.9, 868.0; 117.9, 419.0; 119.1, 3328.0; 120.1, 5829.0; 121.1, 1820.0; 122.1, 436.0; 122.9, 180.0; 126.0, 309.0; 126.7, 163.0; 127.9, 259.0; 129.1, 261.0; 131.1, 688.0; 133.0, 11402.0; 134.1, 2170.0; 135.0, 2723.0; 135.9, 596.0; 137.0, 371.0; 139.0, 181.0; 141.1, 225.0; 143.1, 242.0; 145.1, 655.0; 146.1, 291.0; 147.1, 1541.0; 148.0, 556.0; 148.9, 478.0; 151.0, 3477.0; 152.1, 536.0; 153.0, 353.0; 156.9, 170.0; 159.0, 317.0; 160.1, 656.0; 161.1, 10102.0; 162.1, 1469.0; 162.9, 360.0; 165.0, 468.0; 175.1, 260.0; 176.0, 1153.0; 177.0, 4107.0; 178.1, 701.0; 179.0, 624.0; 187.0, 215.0; 189.1, 442.0; 190.0, 231.0; 191.0, 606.0; 192.0, 946.0; 193.0, 910.0; 194.0, 181.0; 195.0, 175.0; 202.1, 353.0; 204.1, 4251.0; 205.1, 883.0; 207.0, 1052.0; 207.9, 315.0; 209.0, 368.0; 222.9, 174.0; 235.0, 431.0; 236.9, 257.0; 251.0, 525.0; 253.0, 779.0; 253.9, 194.0; 267.0, 2229.0; 267.9, 646.0; 268.9, 538.0; 281.0, 411.0; 308.1, 199.0; 309.0, 819.0; 309.9, 318.0; 310.8, 202.0; 326.9, 436.0; 331.0, 292.0; 341.0, 412.0; 341.9, 162.0; 343.0, 159.0; 401.1, 168.0; 414.9, 169.0; 499.1, 377.0
17	13.248	31.0, 320.0; 32.1, 553.0; 34.9, 285.0; 36.0, 987.0; 38.0, 367.0; 39.1, 2121.0; 40.0, 631.0; 41.1, 3821.0; 42.1, 373.0; 43.0, 606.0; 44.0, 520.0; 44.9, 334.0; 50.0, 405.0; 51.0, 929.0; 52.0, 512.0; 53.1, 3001.0; 53.9, 201.0; 55.1, 2417.0; 56.0, 208.0; 57.0, 219.0; 58.9, 152.0; 62.0, 174.0; 63.0, 642.0; 64.1, 246.0; 65.0, 2152.0; 66.0, 878.0; 67.1, 3152.0; 68.1, 1243.0; 69.0, 942.0; 69.8, 171.0; 73.0, 557.0; 74.1, 210.0; 75.0, 436.0; 77.1, 6299.0; 78.0, 1852.0; 79.1, 11792.0; 80.1, 2473.0; 81.1, 3123.0; 82.0, 436.0; 83.0, 299.0; 83.9, 214.0; 88.9, 494.0; 91.1, 12821.0; 92.1, 3909.0; 93.1, 8086.0; 94.1, 2845.0; 95.1, 2140.0; 96.0, 548.0; 97.0, 588.0; 98.0, 169.0; 102.1, 338.0; 103.1, 1519.0; 104.0, 952.0; 105.1, 9514.0; 106.0, 3489.0; 107.1, 4090.0; 108.1, 1886.0; 109.1, 607.0; 110.1, 283.0; 115.0, 1836.0; 116.0, 640.0; 117.0, 3844.0; 118.1, 1985.0; 119.1, 12004.0; 120.1, 2208.0; 121.0, 1268.0; 122.0, 248.0; 123.0, 201.0; 126.1, 308.0; 127.1, 300.0; 128.1, 773.0; 129.0, 912.0; 130.0, 552.0; 131.1, 4768.0; 132.1, 2012.0; 133.0, 6439.0; 134.1, 8406.0; 135.0, 3345.0; 135.9, 342.0; 136.9, 329.0; 141.0, 338.0; 142.0, 259.0; 143.0, 485.0; 144.0, 508.0; 145.1, 4365.0; 146.1, 1499.0; 147.0, 1585.0; 148.1, 416.0; 148.9, 206.0; 151.0, 3306.0; 151.9, 573.0; 152.9, 424.0; 156.0, 176.0; 156.9, 336.0; 158.1, 271.0; 159.1, 6332.0; 160.1, 1492.0; 161.1, 930.0; 162.0, 159.0; 163.1, 305.0; 164.0, 161.0; 165.0, 456.0; 173.1, 1313.0; 174.1, 3044.0; 175.0, 507.0; 176.0, 1039.0; 177.0, 4084.0; 178.0, 731.0; 179.0, 575.0; 187.1, 6279.0; 188.1, 1073.0; 189.1, 152.0; 191.0, 498.0; 191.9, 264.0; 192.9, 937.0; 194.0, 211.0; 195.0, 227.0; 201.1, 178.0; 202.1, 2140.0; 203.0, 363.0; 207.0, 1263.0; 208.0, 266.0; 208.9, 273.0; 222.9, 215.0; 234.9, 314.0; 236.9, 236.0; 250.8, 500.0; 253.0, 797.0; 254.0, 236.0; 267.0, 2444.0; 267.9, 740.0; 268.9, 531.0; 280.9, 245.0; 308.1, 159.0; 309.0, 862.0; 309.9, 269.0; 310.9, 241.0; 325.1, 223.0; 326.9, 343.0; 327.9, 196.0; 331.1, 230.0; 341.0, 386.0; 342.2, 185.0; 414.9, 195.0; 498.1, 155.0; 499.1, 324.0; 500.1, 172.0
18	13.545	31.0, 237.0; 32.0, 768.0; 34.9, 214.0; 35.9, 1040.0; 38.0, 636.0; 39.1, 2899.0; 40.0, 606.0; 41.0, 4499.0; 42.1, 581.0; 43.1, 2073.0; 44.0, 526.0; 45.0, 725.0; 50.0, 728.0; 51.0, 1896.0; 52.0, 959.0; 53.1, 3131.0; 54.0, 359.0; 55.1, 3706.0; 56.0, 264.0; 57.1, 2868.0; 58.0, 259.0; 58.9, 342.0; 60.0, 581.0; 61.0, 283.0; 62.0, 373.0; 63.0, 1239.0; 64.0, 526.0; 65.1, 3808.0; 66.1, 1177.0; 67.1, 5711.0; 68.1, 906.0; 69.1, 2657.0; 70.0, 275.0; 71.0, 424.0; 73.0, 1278.0; 74.1, 320.0; 75.1, 702.0; 77.1, 11406.0; 78.1, 3389.0; 79.1, 10679.0; 80.1, 1741.0; 81.1, 4076.0; 81.9, 434.0; 83.0, 503.0; 84.0, 213.0; 85.0, 2754.0; 85.9, 262.0; 87.0, 363.0; 87.9, 182.0; 89.0, 1161.0; 91.1, 14014.0; 92.0, 3272.0; 93.1, 9948.0; 94.1, 1888.0; 95.1, 1203.0; 95.9, 372.0; 96.8, 335.0; 98.0, 189.0; 99.0, 274.0; 100.9, 282.0; 102.0, 628.0; 103.0, 3108.0; 104.0, 2191.0; 105.0, 7804.0; 106.1, 2768.0; 107.0, 3261.0; 108.1, 1325.0; 109.1, 2255.0; 110.0, 422.0; 111.1, 448.0; 112.1, 151.0; 115.1, 2647.0; 116.1, 668.0; 117.0, 3248.0; 118.1, 6257.0; 119.1, 16416.0; 120.1, 6856.0; 121.0, 4535.0; 122.0, 1328.0; 123.0, 497.0; 124.0, 904.0; 125.0, 192.0; 126.1, 455.0; 127.1, 205.0; 128.0, 420.0; 129.0, 689.0; 130.1, 396.0; 131.1, 5398.0; 132.1, 1905.0; 133.0,

		10280.0; 134.0, 3313.0; 135.0, 4814.0; 136.0, 869.0; 137.0, 1463.0; 138.0, 295.0; 139.0, 211.0; 140.9, 210.0; 142.0, 160.0; 143.0, 324.0; 145.1, 6196.0; 146.1, 3256.0; 147.1, 3599.0; 148.0, 1309.0; 149.0, 1066.0; 150.1, 2581.0; 151.0, 3572.0; 152.0, 645.0; 153.1, 362.0; 157.1, 445.0; 157.9, 165.0; 159.1, 3309.0; 160.1, 1968.0; 161.1, 2210.0; 162.1, 712.0; 163.0, 550.0; 164.0, 284.0; 165.1, 2965.0; 166.0, 408.0; 167.0, 158.0; 171.1, 176.0; 173.1, 885.0; 174.2, 1189.0; 175.0, 388.0; 176.0, 1393.0; 177.1, 7664.0; 178.0, 1500.0; 179.0, 905.0; 180.0, 254.0; 181.0, 1104.0; 182.0, 192.0; 187.1, 5986.0; 188.1, 918.0; 191.1, 748.0; 193.0, 19328.0; 194.1, 2562.0; 194.9, 408.0; 201.0, 220.0; 202.1, 2197.0; 203.2, 449.0; 204.1, 272.0; 207.1, 1709.0; 208.1, 32416.0; 209.1, 4417.0; 210.1, 464.0; 232.2, 540.0; 234.0, 156.0; 235.0, 328.0; 237.0, 156.0; 248.9, 179.0; 250.9, 503.0; 252.9, 857.0; 254.9, 173.0; 267.0, 2315.0; 268.0, 678.0; 269.0, 496.0; 280.9, 383.0; 281.9, 154.0; 308.0, 197.0; 309.0, 772.0; 310.1, 261.0; 311.0, 273.0; 325.1, 218.0; 327.0, 550.0; 331.1, 222.0; 340.9, 466.0; 342.0, 162.0; 343.0, 159.0; 346.0, 227.0; 415.0, 306.0; 499.0, 314.0; 500.0, 152.0
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		31.0, 249.0; 32.0, 560.0; 35.0, 159.0; 36.0, 929.0; 37.9, 407.0; 39.0, 1209.0; 39.9, 219.0; 41.0, 1388.0; 42.1, 300.0; 43.1, 874.0; 44.1, 402.0; 45.0, 432.0; 50.0, 296.0; 51.1, 555.0; 52.1, 354.0; 53.0, 687.0; 53.9, 183.0; 55.1, 885.0; 56.1, 161.0; 57.1, 396.0; 58.0, 175.0; 59.0, 150.0; 61.0, 249.0; 63.0, 575.0; 64.1, 216.0; 65.0, 1252.0; 66.1, 251.0; 67.1, 732.0; 68.0, 571.0; 69.0, 489.0; 70.0, 250.0; 70.8, 230.0; 71.1, 213.0; 73.0, 647.0; 74.0, 234.0; 75.0, 505.0; 76.1, 371.0; 77.1, 2858.0; 77.9, 977.0; 79.0, 1328.0; 80.2, 260.0; 81.0, 625.0; 82.1, 429.0; 83.0, 570.0; 84.0, 379.0; 85.1, 427.0; 86.1, 151.0; 87.0, 170.0; 88.0, 163.0; 89.0, 688.0; 90.0, 299.0; 91.0, 4134.0; 92.1, 759.0; 93.0, 2563.0; 94.0, 391.0; 95.0, 560.0; 96.0, 278.0; 97.1, 232.0; 98.0, 178.0; 98.9, 173.0; 100.1, 305.0; 100.9, 207.0; 102.1, 412.0; 103.0, 1231.0; 104.0, 521.0; 105.0, 4761.0; 106.0, 744.0; 107.0, 614.0; 108.0, 290.0; 109.0, 370.0; 109.9, 199.0; 115.1, 3529.0; 116.0, 753.0; 117.0, 1755.0; 118.0, 499.0; 119.1, 3276.0; 120.0, 550.0; 121.0, 554.0; 122.0, 175.0; 126.1, 440.0; 127.1, 1082.0; 128.0, 4403.0; 129.1, 3639.0; 130.1, 597.0; 131.0, 902.0; 132.1, 1362.0; 133.0, 4836.0; 134.0, 913.0; 135.0, 2390.0; 136.0, 469.0; 137.0, 454.0; 138.9, 415.0; 140.0, 176.0; 141.1, 2288.0; 142.1, 5150.0; 143.1, 7641.0; 144.1, 1465.0; 145.0, 815.0; 146.0, 240.0; 146.9, 484.0; 149.0, 242.0; 149.9, 184.0; 151.0, 3195.0; 152.0, 1294.0; 153.1, 1339.0; 154.0, 804.0; 155.1, 1937.0; 156.1, 3130.0; 157.1, 20088.0; 158.0, 2625.0; 159.1, 579.0; 160.2, 179.0; 160.9, 441.0; 163.0, 340.0; 164.1, 172.0; 165.0, 819.0; 166.0, 207.0; 167.0, 442.0; 168.1, 355.0; 169.0, 783.0; 170.1, 2295.0; 171.1, 1443.0; 172.1, 226.0; 175.0, 155.0; 176.0, 1047.0; 177.0, 4415.0; 178.0, 777.0; 179.0, 573.0; 180.1, 218.0; 183.0, 525.0; 185.1, 10989.0; 186.1, 1796.0; 187.1, 184.0; 191.0, 517.0; 191.8, 153.0; 193.0, 886.0; 194.0, 249.0; 195.0, 184.0; 199.0, 344.0; 200.1, 11525.0; 201.1, 2059.0; 202.3, 275.0; 207.0, 1454.0; 207.9, 333.0; 208.9, 356.0; 234.8, 303.0; 251.0, 467.0; 253.0, 991.0; 253.9, 242.0; 266.9, 2254.0; 268.0, 655.0; 268.9, 568.0; 281.0, 429.0; 308.0, 218.0; 309.0, 772.0; 310.1, 177.0; 325.0, 277.0; 326.9, 299.0; 331.1, 331.0; 340.9, 412.0; 342.0, 154.0; 346.0, 204.0; 415.0, 156.0; 499.1, 250.0
21	13.800	31.0, 232.0; 31.9, 677.0; 34.9, 224.0; 36.0, 1103.0; 37.1, 178.0; 38.0, 393.0; 39.0, 1082.0; 40.1, 199.0; 41.0, 809.0; 42.0, 384.0; 43.1, 2022.0; 44.0, 616.0; 44.9, 402.0; 50.1, 297.0; 51.0, 888.0; 52.0, 355.0; 53.0, 615.0; 54.0, 190.0; 55.0, 1279.0; 56.0, 262.0; 57.1, 255.0; 59.1, 261.0; 60.0, 205.0; 61.9, 201.0; 63.0, 604.0; 64.0, 303.0; 65.0, 1478.0; 66.0, 345.0; 66.9, 371.0; 68.0, 440.0; 69.0, 407.0; 70.9, 193.0; 73.1, 717.0; 74.0, 232.0; 75.0, 510.0; 75.9, 380.0; 77.0, 2656.0; 78.0, 1575.0; 79.0, 1524.0; 80.1, 385.0; 81.0, 634.0; 82.0, 253.0; 83.0, 2998.0; 83.9, 337.0; 85.1, 699.0; 89.0, 904.0; 90.1, 791.0; 91.1, 3300.0; 92.0, 882.0; 93.0, 1142.0; 93.9, 474.0; 95.1, 365.0; 95.8, 191.0; 97.1, 272.0; 98.0, 152.0; 98.9, 350.0; 100.0, 203.0; 101.8, 162.0; 102.9, 671.0; 104.1, 339.0; 105.0, 6831.0; 106.0, 2367.0; 107.0, 4002.0; 108.0, 1688.0; 109.0, 509.0; 110.1, 263.0; 111.0, 952.0; 115.1, 829.0; 116.0, 171.0; 117.0, 566.0; 117.9, 523.0; 119.0, 2631.0; 120.1, 2926.0; 121.1, 832.0; 122.0, 313.0; 123.0, 152.0; 125.0, 343.0; 126.1, 408.0; 127.1, 176.0; 127.9, 312.0; 128.9, 381.0; 131.0, 320.0; 133.0, 5094.0; 133.9, 1069.0; 135.0, 3728.0; 135.9, 707.0; 137.0, 1318.0; 138.0, 218.0; 140.9, 215.0; 142.0, 206.0; 143.1, 409.0; 143.9, 185.0; 145.0, 345.0; 146.2, 279.0; 146.9, 507.0; 149.1, 359.0; 151.1, 38640.0; 152.1, 4161.0; 152.9, 575.0; 154.9, 200.0; 155.9, 206.0; 156.9, 513.0; 158.0, 202.0; 159.1, 254.0; 161.0, 517.0; 161.9, 223.0; 163.0, 240.0; 165.0, 415.0; 165.9, 156.0; 168.1, 177.0; 176.0, 1163.0; 177.0, 3835.0; 178.0, 652.0; 179.0, 589.0; 180.1, 314.0; 183.0, 451.0; 185.2, 267.0; 187.0, 227.0; 190.9, 478.0; 191.9, 199.0; 192.9, 862.0; 194.1, 7825.0; 195.1, 1239.0; 196.0, 162.0; 198.1, 329.0; 200.1, 220.0; 202.1, 292.0; 203.1, 216.0; 207.0, 1462.0; 208.2, 301.0; 209.0, 408.0; 235.0, 308.0; 236.9, 156.0; 248.8, 162.0; 250.9, 644.0; 252.9, 1088.0; 254.0, 223.0; 267.0, 2454.0; 267.9, 491.0; 269.0, 582.0; 281.0, 317.0; 308.0, 167.0; 309.0, 659.0; 309.9, 238.0; 310.9, 172.0; 325.0, 158.0; 326.8, 347.0; 331.0, 423.0; 332.0, 154.0; 340.9, 404.0; 342.0, 185.0; 415.0, 184.0; 499.2, 240.0
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23	14.037	

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26	14.892	30.1, 845.0; 31.1, 504.0; 32.0, 407.0; 35.1, 156.0; 36.0, 696.0; 37.0, 548.0; 38.1, 3050.0; 39.1, 50072.0; 40.1, 5890.0; 41.1, 35440.0; 42.1, 4221.0; 43.1, 12401.0; 44.1, 708.0; 45.0, 605.0; 50.1, 5935.0; 51.1, 17640.0; 52.1, 6590.0; 53.1, 33336.0; 54.2, 8183.0; 55.1, 158464.0; 56.1, 7959.0; 57.1, 3351.0; 57.9, 1236.0; 59.0, 1231.0; 60.1, 173.0; 61.1, 615.0; 62.0, 3398.0; 63.1, 16656.0; 64.1, 5370.0; 65.1, 42440.0; 66.1, 4393.0; 67.1, 6511.0; 68.1, 1189.0; 69.1, 5845.0; 70.1, 736.0; 71.0, 972.0; 72.1, 295.0; 73.0, 656.0; 74.1, 2158.0; 75.1, 4536.0; 76.1, 5052.0; 77.1, 69432.0; 78.1, 21792.0; 79.1, 25432.0; 80.1, 2708.0; 81.1, 7365.0; 83.1, 965824.0; 84.1, 51520.0; 85.1, 7359.0; 86.0, 1766.0; 87.0, 2089.0; 88.1, 1495.0; 89.1, 17616.0; 91.1, 181888.0; 92.1, 22512.0; 93.1, 33208.0; 94.1, 3565.0; 95.1, 2339.0; 96.1, 1266.0; 97.1, 4228.0; 98.1, 56808.0; 99.1, 5223.0; 100.2, 595.0; 101.0, 2820.0; 102.1, 14242.0; 103.1, 43104.0; 104.1, 27032.0; 105.1, 148736.0; 106.1, 13435.0; 107.1, 4013.0; 108.0, 2533.0; 109.1, 14682.0; 110.1, 1708.0; 111.1, 7200.0; 112.1, 687.0; 113.1, 1195.0; 115.1, 105096.0; 116.1, 29472.0; 117.1, 174400.0; 118.1, 89128.0; 119.1, 795136.0; 120.1, 82944.0; 121.1, 6034.0; 122.0, 641.0; 123.1, 840.0; 124.0, 635.0; 125.1, 2806.0; 126.1, 2399.0; 127.1, 6049.0; 128.1, 15657.0; 129.1, 11177.0; 130.1, 4764.0; 131.1, 24464.0; 132.1, 239744.0; 133.1, 70968.0; 134.1, 7661.0; 135.0, 4919.0; 136.1, 757.0; 137.1, 598.0; 138.1, 359.0; 139.1, 1087.0; 141.1, 6894.0; 142.1, 7384.0; 143.1, 10381.0; 144.1, 3758.0; 145.1, 35600.0; 146.1, 5480.0; 147.1, 2205.0; 148.1, 8234.0; 149.1, 1320.0; 150.0, 347.0; 151.0, 3480.0; 152.0, 2905.0; 153.0, 4507.0; 154.1, 1475.0; 155.1, 8028.0; 156.1, 3668.0; 157.1, 9162.0; 158.1, 8465.0; 159.1, 35880.0; 160.1, 6000.0; 161.1, 5964.0; 162.1, 1103.0; 163.0, 568.0; 164.0, 376.0; 165.1, 2857.0; 166.1, 1700.0; 167.1, 2965.0; 168.1, 9942.0; 169.1, 2706.0; 170.1, 1259.0; 171.1, 4598.0; 172.1, 5507.0; 173.1, 34888.0; 174.1, 5185.0; 175.1, 1303.0; 175.9, 1101.0; 177.0, 3382.0; 178.0, 899.0; 179.0, 767.0; 180.1, 256.0; 181.1, 1226.0; 182.1, 964.0; 183.1, 14721.0; 184.1, 2306.0; 185.1, 3209.0; 186.1, 5619.0; 187.1, 1518.0; 188.1, 338.0; 189.0, 254.0; 191.0, 576.0; 193.0, 928.0; 194.1, 791.0; 195.0, 343.0; 197.0, 650.0; 198.1, 1234.0; 199.1, 2543.0; 201.1, 297984.0; 202.1, 42976.0; 203.1, 4247.0; 204.1, 499.0; 207.0, 1443.0; 208.0, 498.0; 209.0, 346.0; 213.2, 231.0; 214.1, 1097.0; 216.2, 421440.0; 217.2, 66168.0; 218.1, 6204.0; 219.1, 524.0; 220.2, 179.0; 222.9, 180.0; 235.0, 504.0; 249.1, 167.0; 251.0, 383.0; 253.0, 1072.0; 254.0, 300.0; 254.8, 159.0; 267.0, 2022.0; 268.0, 539.0; 269.0, 650.0; 281.0, 440.0; 308.0, 232.0; 309.0, 653.0; 309.9, 300.0; 325.0, 156.0; 327.0, 381.0; 331.0, 329.0; 340.9, 462.0; 346.1, 160.0; 355.1, 176.0; 405.0, 167.0; 499.0, 157.0
27	14.934	30.1, 909.0; 31.0, 571.0; 32.0, 408.0; 36.0, 610.0; 37.1, 571.0; 38.1, 3440.0; 39.1, 60520.0; 40.1, 7861.0; 41.1, 41432.0; 42.1, 7609.0; 43.1, 28256.0; 44.0, 1381.0; 45.0, 1223.0; 46.0, 163.0; 48.8, 167.0; 50.1, 5140.0; 51.1, 23608.0; 52.1, 9969.0; 53.1, 47040.0; 54.2, 10362.0; 55.1, 167936.0; 56.1, 10722.0; 57.1, 4827.0; 58.0, 979.0; 59.1, 1358.0; 59.9, 164.0; 61.0, 407.0; 62.1, 2122.0; 63.1, 9120.0; 64.1, 3152.0; 65.1, 45960.0; 66.1, 7718.0; 67.1, 16114.0; 68.1, 3274.0; 69.1, 14411.0; 70.0, 2865.0; 71.1, 2658.0; 72.0, 460.0; 73.0, 552.0; 74.0, 1016.0; 75.1, 1960.0; 77.1, 210176.0; 78.1, 45168.0; 79.1, 49032.0; 80.1, 6912.0; 81.1, 13629.0; 83.1, 774592.0; 84.1, 45400.0; 85.1, 96088.0; 86.1, 5557.0; 87.1, 1021.0; 89.1, 6410.0; 91.1, 284096.0; 92.1, 67344.0; 93.1, 156608.0; 94.1, 14268.0; 95.1, 8634.0; 96.1, 2199.0; 97.1, 2055.0; 98.1, 15447.0; 99.1, 43600.0; 100.1, 3686.0; 101.0, 853.0; 102.1, 3098.0; 103.1, 20976.0; 105.1, 832768.0; 106.1, 75032.0; 107.1, 10280.0; 108.1, 2396.0; 109.1, 6558.0; 111.1, 259264.0; 112.1, 18664.0; 113.1, 1396.0; 115.1, 16432.0; 116.1, 4417.0; 117.1, 25936.0; 119.1, 377664.0; 120.1, 448960.0; 121.1, 54040.0; 122.1, 3708.0; 123.0, 2736.0; 124.1, 720.0; 125.1, 7928.0; 126.1, 52992.0; 127.1, 5740.0; 128.1, 4199.0; 129.1, 4047.0; 130.1, 921.0; 131.1, 2978.0; 132.1, 12816.0; 133.1, 14628.0; 134.1, 13706.0; 135.0, 7766.0; 136.0, 928.0; 137.0, 1004.0; 138.1, 447.0; 139.0, 342.0; 141.1, 1592.0; 142.1, 2998.0; 143.1, 7299.0; 144.1, 4535.0; 145.1, 4084.0; 146.2, 810.0; 147.1, 11285.0; 148.1, 1767.0; 149.1, 1308.0; 150.1, 931.0; 151.0, 2960.0; 152.1, 1020.0; 153.1, 1096.0; 154.0, 477.0; 155.1, 1004.0; 156.1, 2340.0; 157.1, 30896.0; 158.1, 4401.0; 159.0, 2325.0; 160.1, 885.0; 161.1, 14286.0; 162.1, 23640.0; 163.1, 3946.0; 164.0, 577.0; 165.0, 807.0; 166.0, 271.0; 167.0, 359.0; 168.1, 371.0; 169.1, 606.0; 170.1, 1239.0; 171.1, 1869.0; 172.1, 523.0; 173.1, 1230.0; 174.0, 402.0; 175.1, 1309.0; 176.0, 1862.0; 177.0, 3774.0; 178.1, 719.0; 179.0, 690.0; 179.9, 191.0; 180.9, 206.0; 183.1, 498.0; 185.1, 19904.0; 186.1, 3279.0; 187.0, 705.0; 189.1, 472.0; 190.0, 222.0; 190.2, 223.0; 191.0, 385.0; 193.0, 953.0; 194.0, 642.0; 195.0, 215.0; 200.2, 46296.0; 201.1, 11211.0; 203.1, 34328.0; 204.2, 5151.0; 205.1, 598.0; 207.0, 1360.0; 208.0, 503.0; 208.9, 383.0; 216.1, 4790.0; 218.2, 42776.0; 219.1, 7153.0; 220.1, 766.0; 222.9, 188.0; 235.0, 391.0; 250.9, 386.0; 253.0, 981.0; 254.0, 234.0; 267.0, 1956.0; 268.0, 489.0; 269.0, 533.0; 281.0, 341.0; 282.1, 152.0; 308.0, 163.0; 309.1, 634.0; 310.1, 179.0; 310.9, 197.0; 325.0, 243.0; 326.9, 314.0; 331.0, 392.0; 340.9, 369.0; 341.9, 176.0; 415.1, 154.0; 499.2, 186.0

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31	15.296	30.1, 994.0; 31.0, 676.0; 32.0, 476.0; 36.0, 611.0; 37.0, 581.0; 38.1, 3193.0; 39.1, 58096.0; 40.1, 8390.0; 41.1, 39368.0; 42.1, 5406.0; 43.1, 11960.0; 44.0, 692.0; 45.0, 894.0; 48.9, 168.0; 50.1, 4509.0; 51.1, 17608.0; 52.1, 9622.0; 53.1, 46656.0; 54.1, 11000.0; 55.1, 160768.0; 56.1, 7664.0; 57.1, 1880.0; 58.0, 691.0; 59.1, 868.0; 60.0, 263.0; 62.0, 1828.0; 63.1, 8660.0; 64.1, 3295.0; 65.1, 41680.0; 66.1, 9401.0; 67.1, 14710.0; 68.1, 2462.0; 69.1, 7860.0; 70.1, 572.0; 71.0, 662.0; 72.2, 216.0; 73.0, 659.0; 74.0, 869.0; 75.0, 1392.0; 77.1, 139200.0; 78.1, 49296.0; 79.1, 84288.0; 80.1, 9462.0; 81.1, 8170.0; 83.1, 461888.0; 84.1, 25784.0; 85.1, 5822.0; 86.1, 603.0; 87.0, 618.0; 87.9, 502.0; 89.1, 5275.0; 91.1, 263424.0; 92.1, 134464.0; 93.1, 68096.0; 94.1, 8612.0; 95.1, 6514.0; 96.0, 1140.0; 97.1, 1422.0; 98.1, 9124.0; 99.1, 4109.0; 100.0, 412.0; 101.1, 463.0; 102.1, 2096.0; 103.1, 16079.0; 105.1, 310016.0; 106.1, 29992.0; 107.1, 7195.0; 108.1, 4308.0; 109.1, 5105.0; 110.0, 1352.0; 111.1, 15485.0; 112.1, 8760.0; 113.0, 727.0; 115.1, 11018.0; 116.1, 2964.0; 117.1, 16848.0; 118.1, 27448.0; 120.1, 1805312.0; 121.1, 190976.0; 122.1, 9422.0; 123.1, 2892.0; 125.1, 24208.0; 126.1, 2846.0; 127.0, 1128.0; 128.0, 2285.0; 129.1, 2342.0; 130.0, 881.0; 131.0, 2335.0; 132.1, 1424.0; 133.0, 7139.0; 134.1, 2258.0; 135.0, 4225.0; 136.1, 1181.0; 137.0, 626.0; 138.1, 228.0; 139.1, 223.0; 141.1, 1326.0; 142.0, 825.0; 143.1, 1526.0; 144.1, 703.0; 145.1, 2649.0; 146.1, 717.0; 147.1, 2241.0; 148.1, 891.0; 149.0, 1281.0; 151.1, 4690.0; 152.0, 1041.0; 153.0, 711.0; 154.1, 325.0; 155.0, 534.0; 156.0, 408.0; 157.1, 1341.0; 158.0, 521.0; 159.1, 1016.0; 160.0, 426.0; 161.1, 2052.0; 162.1, 4368.0; 163.1, 3414.0; 164.1, 550.0; 165.1, 555.0; 167.1, 405.0; 168.0, 209.0; 169.1, 220.0; 170.0, 174.0; 171.0, 536.0; 172.0, 342.0; 173.2, 453.0; 174.1, 285.0; 175.1, 878.0; 176.1, 1296.0; 177.0, 3861.0; 178.0, 704.0; 179.0, 1718.0; 180.0, 292.0; 181.0, 191.0; 183.1, 161.0; 185.0, 937.0; 186.1, 807.0; 187.1, 337.0; 189.1, 526.0; 190.1, 315.0; 191.0, 535.0; 191.9, 255.0; 192.9, 1008.0; 194.1, 5844.0; 195.0, 1045.0; 196.0, 182.0; 199.1, 956.0; 200.1, 3512.0; 201.1, 1325.0; 202.0, 565.0; 203.1, 2420.0; 204.2, 343.0; 205.1, 272.0; 207.0, 1499.0; 208.0, 410.0; 208.9, 282.0; 214.0, 186.0; 215.3, 160.0; 216.1, 891.0; 218.2, 42560.0; 219.2, 7184.0; 220.2, 756.0; 223.1, 178.0; 234.1, 193.0; 235.1, 410.0; 237.0, 167.0; 248.9, 156.0; 250.9, 659.0; 252.9, 465.0; 267.0, 2210.0; 267.9, 657.0; 269.0, 438.0; 281.0, 444.0; 282.1, 155.0; 308.0, 193.0; 309.1, 623.0; 310.0, 230.0; 311.1, 180.0; 324.9, 225.0; 327.0, 454.0; 327.9, 215.0; 341.0, 557.0; 342.9, 187.0; 405.0, 174.0; 415.0, 212.0
32	15.426	31.1, 372.0; 32.0, 613.0; 35.0, 235.0; 36.0, 777.0; 37.0, 225.0; 38.0, 553.0; 39.1, 3542.0; 40.1, 850.0; 41.1, 9002.0; 42.1, 2374.0; 43.1, 10557.0; 44.0, 960.0; 45.0, 863.0; 50.0, 478.0; 51.0, 936.0; 52.0, 987.0; 53.1, 2955.0; 54.0, 1291.0; 55.1, 14529.0; 56.1, 1876.0; 57.1, 4749.0; 58.0, 482.0; 59.0, 3786.0; 60.1, 299.0; 60.9, 205.0; 61.9, 224.0; 63.0, 686.0; 63.9, 481.0; 65.0, 1983.0; 66.0, 714.0; 67.0, 3583.0; 68.0, 1733.0; 69.1, 6492.0; 70.1, 1562.0; 71.1, 1683.0; 72.0, 300.0; 73.2, 1979.0; 74.0, 39888.0; 75.0, 6875.0; 76.0, 859.0; 77.1, 4006.0; 78.0, 1511.0; 79.0, 4325.0; 80.1, 1434.0; 81.1, 6644.0; 82.2, 1691.0; 83.0, 31552.0; 84.1, 3381.0; 85.0, 1502.0; 87.0, 30536.0; 88.0, 2787.0; 89.0, 1053.0; 90.1, 611.0; 91.1, 4242.0; 92.1, 1163.0; 93.1, 5392.0; 94.0, 3016.0; 95.1, 3159.0; 96.1, 1066.0; 97.1, 3072.0; 98.1, 1485.0; 99.0, 498.0; 100.0, 272.0; 101.1, 3156.0; 102.1, 433.0; 103.0, 908.0; 103.9, 510.0; 105.0, 4818.0; 106.0, 1350.0; 107.1, 2321.0; 108.1, 848.0; 109.0, 1634.0; 110.1, 642.0; 111.0, 1808.0; 112.0, 1015.0; 113.0, 365.0; 114.0, 215.0; 115.0, 2201.0; 116.0, 718.0; 117.1, 1033.0; 118.1, 710.0; 119.0, 4197.0; 120.1, 4369.0; 121.0, 2568.0; 122.1, 911.0; 123.1, 6069.0; 124.1, 1949.0; 125.0, 1539.0; 126.0, 629.0; 127.1,

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33	15.486	30.9, 229.0; 32.0, 552.0; 34.9, 203.0; 36.0, 687.0; 38.0, 377.0; 39.1, 1547.0; 40.1, 289.0; 41.0, 1251.0; 42.0, 305.0; 43.0, 809.0; 43.9, 620.0; 45.0, 463.0; 50.1, 265.0; 51.0, 591.0; 51.9, 354.0; 53.1, 1269.0; 54.1, 342.0; 55.0, 4109.0; 56.0, 520.0; 57.1, 390.0; 57.9, 200.0; 59.0, 191.0; 60.0, 181.0; 61.1, 184.0; 63.0, 417.0; 63.9, 238.0; 65.0, 1052.0; 66.0, 239.0; 67.1, 747.0; 68.0, 440.0; 69.1, 779.0; 70.0, 443.0; 71.0, 252.0; 73.1, 933.0; 74.0, 280.0; 75.0, 586.0; 76.1, 198.0; 77.0, 3613.0; 78.0, 873.0; 79.1, 2325.0; 80.0, 363.0; 81.0, 725.0; 83.1, 23712.0; 84.0, 2109.0; 85.1, 476.0; 87.0, 228.0; 89.0, 544.0; 91.0, 4478.0; 92.0, 936.0; 93.1, 6329.0; 94.1, 865.0; 95.0, 499.0; 95.9, 239.0; 97.1, 428.0; 98.0, 271.0; 102.0, 181.0; 103.1, 776.0; 104.0, 279.0; 105.0, 2188.0; 106.0, 548.0; 107.1, 697.0; 107.9, 223.0; 109.0, 469.0; 110.1, 217.0; 111.1, 192.0; 112.0, 512.0; 112.9, 163.0; 113.8, 152.0; 114.9, 1105.0; 116.0, 252.0; 116.9, 1103.0; 118.0, 488.0; 119.0, 2517.0; 120.0, 1908.0; 121.0, 2296.0; 122.0, 505.0; 123.1, 422.0; 124.1, 195.0; 125.0, 473.0; 125.8, 398.0; 127.0, 213.0; 128.0, 358.0; 129.0, 413.0; 130.0, 155.0; 131.0, 677.0; 132.1, 782.0; 133.0, 4580.0; 134.0, 829.0; 135.0, 2872.0; 136.0, 516.0; 137.0, 477.0; 138.0, 176.0; 139.1, 232.0; 141.1, 394.0; 142.0, 167.0; 143.1, 271.0; 144.0, 174.0; 145.1, 547.0; 147.0, 992.0; 148.1, 626.0; 149.1, 575.0; 149.9, 276.0; 151.0, 3575.0; 152.1, 597.0; 153.0, 381.0; 153.9, 151.0; 154.9, 229.0; 156.0, 173.0; 157.0, 267.0; 158.1, 173.0; 159.1, 346.0; 160.1, 235.0; 161.0, 648.0; 162.0, 252.0; 163.1, 1504.0; 164.1, 296.0; 164.9, 479.0; 167.1, 311.0; 168.0, 332.0; 171.0, 152.0; 173.1, 284.0; 175.2, 241.0; 176.0, 1195.0; 177.0, 4226.0; 177.9, 580.0; 178.9, 773.0; 181.1, 3388.0; 182.0, 365.0; 183.0, 194.0; 185.0, 275.0; 187.1, 256.0; 189.1, 183.0; 190.0, 254.0; 191.0, 553.0; 191.9, 198.0; 192.9, 910.0; 194.0, 1116.0; 195.0, 361.0; 199.1, 460.0; 200.1, 243.0; 201.0, 783.0; 202.1, 167.0; 203.0, 247.0; 205.0, 249.0; 207.0, 1822.0; 208.1, 611.0; 208.8, 339.0; 213.2, 204.0; 214.1, 313.0; 216.1, 890.0; 217.1, 247.0; 218.1, 283.0; 220.9, 152.0; 223.0, 204.0; 224.1, 872.0; 225.1, 158.0; 232.2, 3838.0; 233.1, 627.0; 234.0, 317.0; 234.9, 411.0; 236.2, 150.0; 237.0, 503.0; 251.0, 548.0; 252.1, 162.0; 253.0, 608.0; 267.0, 2409.0; 268.0, 656.0; 269.1, 431.0; 281.0, 595.0; 282.0, 159.0; 308.2, 183.0; 309.0, 838.0; 309.9, 291.0; 311.0, 274.0; 325.0, 365.0; 327.0, 586.0; 328.1, 150.0; 341.0, 537.0; 341.9, 154.0; 343.0, 157.0; 400.9, 242.0; 405.1, 155.0; 415.0, 169.0; 499.1, 158.0
34	15.533	31.0, 268.0; 32.0, 659.0; 36.0, 815.0; 37.9, 247.0; 39.1, 929.0; 40.1, 238.0; 41.1, 1706.0; 42.1, 403.0; 43.1, 810.0; 44.0, 539.0; 45.0, 473.0; 50.0, 248.0; 51.0, 471.0; 52.0, 291.0; 53.0, 791.0; 54.0, 216.0; 55.1, 1822.0; 56.1, 350.0; 57.0, 352.0; 58.1, 151.0; 59.1, 329.0; 59.8, 179.0; 61.0, 151.0; 62.9, 309.0; 63.9, 156.0; 65.0, 730.0; 65.9, 228.0; 67.1, 877.0; 67.9, 399.0; 69.0, 1049.0; 70.0, 422.0; 71.0, 200.0; 73.0, 800.0; 73.9, 168.0; 74.9, 484.0; 76.0, 231.0; 77.0, 2261.0; 78.0, 693.0; 79.1, 1170.0; 80.0, 312.0; 81.0, 1005.0; 82.1, 551.0; 83.0, 2938.0; 84.0, 401.0; 84.9, 341.0; 87.0, 194.0; 89.0, 437.0; 91.1, 3304.0; 92.0, 601.0; 93.1, 2473.0; 94.1, 731.0; 95.1, 1535.0; 95.9, 360.0; 97.1, 393.0; 98.0, 234.0; 99.0, 202.0; 102.0, 182.0; 102.9, 789.0; 103.9, 343.0; 105.1, 2229.0; 106.1, 338.0; 107.0, 985.0; 108.0, 401.0; 109.1, 579.0; 110.1, 947.0; 111.0, 276.0; 112.0, 171.0; 113.0, 318.0; 114.0, 262.0; 115.0, 2085.0; 116.1, 592.0; 117.1, 1806.0; 118.1, 835.0; 119.0, 2200.0; 120.0, 1401.0; 121.1, 2368.0; 122.1, 389.0; 123.0, 565.0; 124.2, 211.0; 125.1, 193.0; 126.0, 608.0; 126.9, 313.0; 128.0, 586.0; 129.0, 564.0; 130.1, 155.0; 131.0, 909.0; 132.0, 782.0; 133.0, 5003.0; 134.0, 1104.0; 135.1, 10152.0; 136.0, 1628.0; 136.9, 494.0; 138.1, 198.0; 139.0, 152.0; 141.1, 370.0; 141.9, 258.0; 143.1, 271.0; 143.9, 179.0; 145.1, 1522.0; 146.0, 1033.0; 147.0, 1680.0; 148.1, 2932.0; 149.1, 959.0; 150.1, 225.0; 151.0, 3591.0; 152.0, 587.0; 153.0, 398.0; 155.1, 190.0; 156.0, 479.0; 157.1, 287.0; 158.1, 263.0; 159.0, 1119.0; 160.1, 408.0; 161.1, 1408.0; 162.1, 459.0; 163.1, 766.0; 164.1, 204.0; 165.0, 418.0; 167.0, 246.0; 168.0, 246.0; 170.9, 152.0;

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37	16.073	31.1, 305.0; 32.1, 545.0; 34.8, 156.0; 36.0, 729.0; 37.0, 152.0; 38.1, 808.0; 39.1, 12241.0; 40.1, 2453.0; 41.1, 15120.0; 42.1, 1778.0; 43.1, 5826.0; 44.0, 612.0; 45.0, 709.0; 50.0, 901.0; 51.1, 3493.0; 52.1, 2055.0; 53.1, 11983.0; 54.0, 2406.0; 55.1, 29504.0; 56.1, 1794.0; 57.0, 1806.0; 58.0, 329.0; 59.0, 694.0; 60.1, 1329.0; 61.0, 504.0; 62.1, 290.0; 63.1, 1670.0; 65.1, 8905.0; 66.1, 3200.0; 67.1, 19168.0; 68.1, 4051.0; 69.1, 10784.0; 70.0, 1218.0; 71.1, 1220.0; 72.1, 192.0; 73.1, 2146.0; 74.0, 436.0; 75.0, 737.0; 77.1, 17864.0; 78.1, 4542.0; 79.1, 22240.0; 80.1, 5045.0; 81.1, 8729.0; 82.2, 6042.0; 83.0, 120352.0; 84.1, 7003.0; 85.1, 3654.0; 86.0, 344.0; 87.0, 784.0; 88.1, 493.0; 89.0, 1022.0; 91.1, 28184.0; 92.1, 4876.0; 93.1, 17968.0; 94.1, 7745.0; 95.1, 24208.0; 96.1, 12283.0; 97.1, 2299.0; 98.0, 939.0; 99.1, 1253.0; 100.1, 216.0; 101.0, 285.0; 102.0, 718.0; 103.0, 3289.0; 104.2, 1413.0; 105.1, 27152.0; 106.1, 4881.0; 107.1, 37056.0; 108.1, 10157.0; 109.1, 21832.0; 110.0, 2494.0; 111.1, 2517.0; 112.0, 722.0; 112.9, 311.0; 114.2, 286.0; 115.0, 6116.0; 116.1, 1971.0; 117.1, 6124.0; 118.1, 2095.0; 119.1, 18024.0; 120.1, 18816.0; 121.1, 19624.0; 122.1, 8309.0; 123.1, 67680.0; 124.1, 10081.0; 125.1, 12116.0; 126.1, 2171.0; 127.0, 1046.0; 128.1, 2628.0; 129.1, 4773.0; 130.0, 1084.0; 131.1, 3005.0; 132.0, 1767.0; 133.0, 9228.0; 134.2, 5185.0; 135.1, 89096.0; 136.1, 11855.0; 137.1, 5638.0; 138.1, 5267.0; 139.0, 874.0; 140.1, 383.0; 141.1, 1386.0; 142.1, 1555.0; 143.1, 3541.0; 144.1, 1186.0; 145.1, 3490.0; 146.2, 1454.0; 147.1, 10780.0; 148.1, 2446.0; 149.1, 9658.0; 150.1, 17168.0; 151.1, 5103.0; 152.0, 875.0; 153.0, 688.0; 154.0, 359.0; 155.0, 662.0; 156.1, 780.0; 157.1, 3894.0; 158.1, 1008.0; 159.1, 1988.0; 160.1, 1410.0; 161.1, 5246.0; 162.1, 2614.0; 163.1, 4477.0; 164.2, 767.0; 165.0, 513.0; 166.0, 269.0; 167.0, 318.0; 168.1, 302.0; 168.9, 250.0; 169.2, 246.0; 170.1, 531.0; 171.1, 954.0; 172.2, 434.0; 173.1, 1004.0; 174.1, 694.0; 175.1, 9851.0; 176.1, 3476.0; 177.1, 4641.0; 178.1, 871.0; 179.0, 876.0; 180.0, 196.0; 181.0, 507.0; 182.1, 172.0; 183.1, 291.0; 185.1, 3008.0; 186.1, 456.0; 187.2, 442.0; 188.1, 267.0; 189.1, 1775.0; 190.1, 2481.0; 191.1, 1062.0; 192.2, 274.0; 193.0, 878.0; 194.0, 662.0; 195.0, 356.0; 197.0, 172.0; 199.0, 426.0; 200.1, 792.0; 201.1, 968.0; 203.1, 32568.0; 204.1, 5464.0; 205.1, 519.0; 207.0, 2462.0; 208.1, 579.0; 208.9, 465.0; 215.1, 150.0; 216.1, 1335.0; 218.2, 34968.0; 219.2, 5609.0; 220.2, 575.0; 223.1, 152.0; 224.1, 305.0; 228.1, 645.0; 234.2, 171.0; 234.9, 446.0; 248.8, 201.0; 250.9, 529.0; 253.0, 797.0; 253.9, 182.0; 265.1, 153.0; 267.0, 1954.0; 268.0, 551.0; 269.0, 442.0; 280.9, 593.0; 308.1, 195.0; 309.0, 676.0; 310.0, 226.0; 310.9, 234.0; 324.8, 210.0; 327.0, 514.0; 331.1, 152.0; 340.9, 555.0; 342.1, 231.0; 415.0, 251.0
38	16.299	30.1, 173.0; 31.1, 270.0; 32.0, 672.0; 34.9, 202.0; 35.9, 722.0; 38.0, 512.0; 39.0, 2243.0; 40.0, 406.0; 41.1, 3130.0; 42.0, 546.0; 43.0, 1732.0; 44.0, 569.0; 44.9, 547.0; 50.0, 199.0; 51.0, 561.0; 52.1, 403.0; 53.1, 1764.0; 54.1, 532.0; 55.1, 5801.0; 56.1, 644.0; 57.0, 1046.0; 58.0, 309.0; 59.0, 1486.0; 60.0, 803.0; 61.0, 321.0; 63.0, 235.0; 65.0, 1248.0; 66.0, 455.0; 67.0, 2075.0; 68.0, 749.0; 69.0, 1689.0; 70.1, 520.0; 71.0, 543.0; 73.0, 1467.0; 74.0, 214.0; 75.0, 358.0; 77.1, 4206.0; 78.1, 1173.0; 79.1, 4687.0; 80.0, 694.0; 81.1, 5595.0; 83.0, 32936.0; 84.1, 2176.0; 85.1, 581.0; 87.0, 998.0; 88.9, 440.0; 91.0, 5064.0; 92.2, 1206.0; 93.1, 21080.0; 94.1, 7267.0; 95.1, 2324.0; 96.0, 582.0; 97.1, 552.0; 98.1, 377.0; 99.0, 249.0; 101.0, 197.0; 103.0, 804.0; 104.0, 297.0; 105.0, 1781.0; 106.1, 454.0; 107.1, 1809.0; 108.0, 719.0; 109.1, 1590.0; 110.0, 3493.0; 111.0, 779.0; 112.1, 225.0; 113.0, 191.0; 113.9, 354.0; 114.9, 1076.0; 116.0, 373.0; 117.1, 1211.0; 118.1, 900.0; 119.0, 2756.0; 120.0, 722.0; 121.1, 1485.0; 122.0, 479.0; 123.1, 4189.0; 124.0, 601.0; 125.0, 1100.0; 126.0, 1499.0; 127.0, 309.0; 128.1, 342.0; 129.0, 765.0; 130.1, 209.0; 131.1, 445.0; 132.0, 1558.0; 133.0, 4148.0; 134.0, 867.0; 135.0, 4209.0; 136.0, 867.0; 137.1, 1431.0; 138.0, 278.0; 138.9, 207.0; 141.0, 1121.0; 142.0, 224.0; 143.0, 429.0; 145.0, 468.0; 145.9, 185.0; 147.0, 995.0; 148.1, 389.0; 149.1, 461.0; 150.1, 856.0; 151.1, 7615.0; 152.0, 1092.0; 153.0, 410.0; 154.0, 288.0; 155.1, 224.0; 155.8, 174.0; 156.9, 286.0; 159.0, 446.0; 160.0, 376.0; 161.1, 830.0; 161.8, 189.0; 162.3, 224.0; 163.0, 271.0; 164.0, 175.0; 165.0, 253.0; 166.1, 152.0; 166.8, 405.0; 167.9, 167.0; 171.1, 286.0; 172.9, 291.0; 175.0, 1488.0; 176.1, 1379.0; 177.0, 4525.0; 178.0, 765.0; 179.0, 842.0; 180.1, 197.0; 181.1, 340.0; 185.2, 543.0; 189.1, 170.0; 191.0, 772.0; 192.0, 323.0; 193.0, 1085.0; 194.0, 462.0; 195.0, 379.0; 199.1, 289.0; 201.0, 446.0; 203.1, 300.0; 206.0, 163.0; 207.0, 2678.0; 207.9, 778.0; 209.0, 674.0; 211.0, 158.0; 216.0, 690.0; 216.9, 191.0; 218.1, 539.0; 219.1, 284.0; 222.8, 240.0; 228.2, 371.0; 234.2, 388.0; 235.0, 542.0; 237.0, 186.0; 249.0, 172.0; 251.0, 536.0; 251.9, 177.0; 253.0, 517.0; 267.0, 1911.0; 268.0, 558.0; 269.0, 413.0; 280.9, 715.0; 283.0, 160.0; 308.0, 169.0; 309.0, 672.0; 310.9, 184.0; 325.0, 221.0; 327.0, 540.0; 329.0, 170.0; 341.0, 566.0; 342.0, 224.0; 343.0, 198.0; 355.2, 161.0; 383.0, 156.0; 405.0, 177.0; 415.0, 168.0

39	16.423	31.0, 270.0; 32.0, 698.0; 35.0, 150.0; 36.0, 672.0; 38.0, 347.0; 39.1, 953.0; 40.0, 245.0; 41.0, 1698.0; 42.1, 300.0; 43.1, 1254.0; 44.0, 647.0; 45.0, 387.0; 50.0, 183.0; 51.1, 354.0; 51.9, 301.0; 53.0, 637.0; 54.2, 250.0; 55.0, 2134.0; 56.0, 387.0; 57.0, 660.0; 58.1, 152.0; 58.9, 162.0; 60.0, 593.0; 61.0, 308.0; 62.9, 198.0; 65.1, 650.0; 65.8, 229.0; 67.0, 784.0; 67.9, 491.0; 69.0, 1016.0; 70.1, 366.0; 71.1, 411.0; 73.0, 1427.0; 74.0, 205.0; 75.0, 418.0; 77.0, 1574.0; 78.0, 445.0; 79.0, 1827.0; 80.0, 756.0; 81.0, 792.0; 82.1, 1135.0; 83.0, 5474.0; 83.9, 527.0; 85.0, 649.0; 86.0, 161.0; 87.0, 285.0; 88.9, 294.0; 89.9, 165.0; 91.1, 2137.0; 92.0, 480.0; 93.1, 788.0; 94.1, 531.0; 95.1, 745.0; 96.1, 448.0; 97.1, 615.0; 98.1, 365.0; 98.9, 226.0; 100.9, 154.0; 103.0, 635.0; 104.0, 281.0; 105.0, 1141.0; 106.0, 338.0; 107.0, 1176.0; 108.1, 969.0; 109.1, 1680.0; 110.0, 566.0; 111.0, 379.0; 113.9, 354.0; 115.1, 914.0; 116.1, 238.0; 117.0, 973.0; 118.0, 798.0; 119.0, 1653.0; 120.0, 661.0; 121.0, 1028.0; 122.0, 314.0; 123.0, 484.0; 124.1, 299.0; 125.0, 661.0; 125.9, 418.0; 127.0, 240.0; 128.1, 326.0; 129.1, 723.0; 130.0, 203.0; 131.0, 488.0; 133.0, 3929.0; 134.0, 993.0; 135.0, 5467.0; 136.1, 993.0; 137.0, 538.0; 138.1, 220.0; 138.8, 224.0; 141.0, 271.0; 142.0, 157.0; 143.1, 298.0; 145.0, 402.0; 145.8, 186.0; 146.9, 874.0; 148.0, 518.0; 149.0, 1078.0; 151.0, 2640.0; 152.0, 513.0; 153.0, 539.0; 154.0, 234.0; 155.9, 166.0; 157.1, 236.0; 158.0, 267.0; 159.1, 405.0; 160.0, 325.0; 161.0, 1159.0; 161.9, 334.0; 162.9, 270.0; 165.1, 379.0; 166.1, 494.0; 166.9, 431.0; 171.0, 310.0; 171.9, 154.0; 172.9, 248.0; 175.1, 674.0; 176.0, 1201.0; 177.0, 3996.0; 178.0, 725.0; 179.0, 642.0; 180.1, 183.0; 181.1, 524.0; 183.1, 153.0; 184.0, 235.0; 185.1, 503.0; 189.0, 275.0; 191.0, 630.0; 191.8, 273.0; 193.0, 1053.0; 194.0, 605.0; 195.0, 259.0; 199.0, 711.0; 200.0, 197.0; 201.0, 303.0; 202.0, 174.0; 203.1, 163.0; 205.1, 161.0; 207.0, 2893.0; 208.1, 640.0; 209.0, 684.0; 209.9, 212.0; 212.9, 249.0; 216.0, 440.0; 217.1, 1069.0; 218.1, 322.0; 223.0, 234.0; 228.2, 205.0; 232.1, 4432.0; 233.2, 819.0; 234.0, 346.0; 234.9, 543.0; 235.9, 155.0; 249.0, 225.0; 251.0, 512.0; 253.0, 638.0; 267.0, 2024.0; 268.0, 488.0; 268.9, 478.0; 280.9, 628.0; 282.1, 232.0; 283.0, 152.0; 309.0, 661.0; 309.9, 150.0; 310.9, 216.0; 325.0, 255.0; 326.9, 484.0; 330.9, 190.0; 341.0, 623.0; 342.0, 178.0; 343.0, 162.0; 355.0, 204.0
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40	16.696	
41	16.744	

		506.0; 124.0, 192.0; 125.1, 368.0; 125.9, 476.0; 126.9, 255.0; 128.1, 356.0; 129.0, 882.0; 129.9, 211.0; 131.0, 440.0; 132.1, 481.0; 133.0, 4025.0; 134.0, 907.0; 135.0, 2882.0; 136.1, 7364.0; 137.0, 1043.0; 137.9, 201.0; 139.1, 151.0; 141.0, 215.0; 142.1, 155.0; 143.0, 313.0; 145.0, 533.0; 146.1, 208.0; 147.0, 514.0; 148.1, 272.0; 149.0, 519.0; 150.0, 295.0; 151.0, 2970.0; 152.0, 550.0; 153.0, 347.0; 154.1, 212.0; 155.2, 187.0; 155.9, 243.0; 156.9, 267.0; 158.0, 150.0; 159.1, 405.0; 160.1, 374.0; 161.0, 589.0; 162.1, 725.0; 163.0, 519.0; 165.1, 1721.0; 166.0, 539.0; 167.1, 342.0; 168.0, 190.0; 171.0, 346.0; 173.1, 186.0; 175.2, 301.0; 175.9, 1272.0; 177.0, 4287.0; 178.0, 822.0; 179.0, 999.0; 180.0, 188.0; 181.1, 369.0; 184.0, 150.0; 185.1, 332.0; 189.0, 167.0; 191.1, 853.0; 192.1, 471.0; 193.0, 1104.0; 193.9, 541.0; 195.0, 278.0; 199.1, 1876.0; 200.1, 338.0; 201.1, 345.0; 204.9, 182.0; 207.0, 2872.0; 208.0, 871.0; 208.9, 535.0; 209.9, 151.0; 213.1, 273.0; 214.2, 431.0; 216.1, 371.0; 218.1, 274.0; 222.1, 670.0; 223.0, 299.0; 228.0, 182.0; 234.1, 266.0; 234.9, 574.0; 237.0, 197.0; 248.9, 155.0; 250.9, 573.0; 252.1, 188.0; 252.9, 604.0; 253.9, 152.0; 264.9, 175.0; 267.0, 2009.0; 268.1, 310.0; 269.0, 419.0; 281.0, 625.0; 282.1, 256.0; 283.0, 193.0; 309.1, 578.0; 310.0, 173.0; 310.9, 196.0; 325.0, 233.0; 326.9, 434.0; 330.8, 152.0; 341.0, 727.0; 342.0, 243.0
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		31.0, 332.0; 32.0, 894.0; 34.9, 152.0; 36.0, 798.0; 37.9, 327.0; 39.1, 1429.0; 40.0, 394.0; 41.1, 6422.0; 42.1, 1310.0; 43.1, 7342.0; 44.0, 902.0; 45.0, 1297.0; 51.0, 206.0; 52.1, 222.0; 53.0, 877.0; 54.1, 782.0; 55.0, 7087.0; 56.0, 1622.0; 57.1, 6758.0; 58.0, 580.0; 59.0, 679.0; 60.0, 7906.0; 61.0, 2252.0; 63.0, 225.0; 63.9, 163.0; 64.9, 342.0; 66.0, 207.0; 67.0, 1428.0; 68.1, 1178.0; 69.1, 4678.0; 70.0, 1968.0; 71.1, 4071.0; 73.0, 12098.0; 74.0, 1021.0; 75.0, 602.0; 75.9, 153.0; 77.0, 1424.0; 78.0, 328.0; 79.1, 896.0; 80.0, 264.0; 81.0, 1306.0; 82.1, 1098.0; 83.0, 4711.0; 84.1, 2176.0; 85.1, 3571.0; 86.0, 466.0; 87.0, 2869.0; 88.1, 541.0; 89.0, 404.0; 91.1, 1161.0; 92.1, 228.0; 93.1, 784.0; 93.9, 402.0; 95.0, 1099.0; 96.0, 1146.0; 97.1, 3255.0; 98.0, 1953.0; 99.1, 1217.0; 100.0, 210.0; 101.1, 1487.0; 102.0, 499.0; 103.0, 638.0; 104.0, 209.0; 105.0, 1038.0; 106.1, 158.0; 107.0, 827.0; 107.9, 243.0; 109.0, 916.0; 110.0, 760.0; 111.1, 1578.0; 112.1, 666.0; 113.1, 903.0; 114.0, 230.0; 115.0, 3036.0; 116.1, 951.0; 117.0, 809.0; 118.0, 399.0; 119.0, 1424.0; 120.0, 446.0; 121.0, 1095.0; 122.1, 306.0; 123.0, 396.0; 124.1, 366.0; 125.0, 1015.0; 126.1, 693.0; 127.1, 630.0; 129.1, 7404.0; 130.0, 915.0; 131.0, 359.0; 132.0, 372.0; 133.0, 3924.0; 134.1, 672.0; 135.0, 2781.0; 136.0, 870.0; 137.0, 716.0; 138.1, 456.0; 139.0, 457.0;
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