***Regression (Exam Practice)***

**Question Number – 1:**

Using a linear model, what is lower 95% confidence limit(one-sided) for the predicted value of y when x = 96.6?

**Answer:** -12.67866908

**Reference: Template.xlsx/Regression/Copy the data to A10, put 96.6 to J12 and take answer from J13 (Clear all the pre-existing data at first)**

|  |  |
| --- | --- |
| X | Y |
| 73.4 | -104.282 |
| 78.6 | -58.178 |
| 72.2 | -103.606 |
| 65.4 | -105.342 |

**Question Number – 2:**

Select ALL of the factors that are significant at a level of 1%.

**Answer:** B, C, F

**Reference: Template.xlsx/Regression/Go to cell Y9 and read instructions and do accordingly.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Factor A | Factor B | Factor C | Factor D | Factor E | Factor F | Result |
| 57.6 | 137.5 | 142.6 | 89.3 | 147.1 | 63.1 | 2421.2 |
| 79.5 | 77 | 54 | 101.4 | 136.3 | 105.4 | 1614.4 |
| 136.8 | 129.9 | 75.4 | 147.1 | 89.4 | 148.4 | 2302 |
| 91.5 | 123.1 | 99.2 | 145.6 | 149.5 | 117.9 | 2303.9 |
| 114.6 | 107.3 | 112 | 67.4 | 115.8 | 85.8 | 2150.7 |
| 82.2 | 123.2 | 94.4 | 103.8 | 94.2 | 101.1 | 2146.1 |
| 102.3 | 80.6 | 50.2 | 59.1 | 84.4 | 147.4 | 1859 |
| 85.1 | 64.4 | 109.1 | 100.8 | 139.7 | 89 | 1974.6 |
| 138.3 | 147.4 | 94.4 | 123.4 | 78.9 | 144.3 | 2523.1 |
| 145 | 95.2 | 99.3 | 136.8 | 144.9 | 56.4 | 1806.6 |
| 108.7 | 74.6 | 121.8 | 126.5 | 58.9 | 100.1 | 2199.2 |
| 144.5 | 140.3 | 145.7 | 103.8 | 93.8 | 75.3 | 2531.9 |
| 139.4 | 115.7 | 70.7 | 69 | 127.3 | 125.6 | 2053.2 |
| 79.6 | 93.8 | 123.2 | 125.8 | 70.7 | 77.9 | 2150.8 |
| 140.5 | 53.9 | 146.4 | 51.7 | 81.3 | 125.9 | 2497.3 |
| 72.3 | 103.8 | 99.8 | 126.5 | 113.9 | 124.9 | 2265.4 |
| 62.5 | 64.1 | 110.7 | 76.2 | 61.5 | 115.3 | 2147.1 |
| 64.4 | 142.5 | 115.7 | 101.9 | 125.8 | 114.5 | 2511.2 |
| 136.7 | 114.2 | 112.4 | 118.5 | 70.3 | 122.5 | 2419.1 |
| 123.4 | 147.8 | 80.3 | 107.2 | 139.5 | 122.9 | 2263.2 |
| 123 | 50.9 | 80.2 | 55.4 | 79 | 130.8 | 1910.4 |
| 91.8 | 53.9 | 82 | 113 | 99.1 | 68.7 | 1547.2 |
| 117.8 | 66.8 | 131.3 | 84.7 | 64.9 | 114.6 | 2347.5 |
| 99.2 | 145.2 | 116.5 | 114 | 135.1 | 74.4 | 2277.4 |
| 118.1 | 71.6 | 96.4 | 135.8 | 141 | 117.4 | 2065 |
| 90.6 | 87 | 143.8 | 72.3 | 140.4 | 125.7 | 2610.7 |
| 129.8 | 77 | 105.5 | 50.5 | 54.7 | 134.7 | 2282.3 |
| 78.4 | 131.3 | 145.7 | 63.8 | 63.6 | 102.9 | 2665.8 |
| 75.7 | 55.6 | 87.4 | 143.5 | 136.6 | 126.6 | 1967.2 |
| 52.6 | 129 | 70.2 | 118 | 128.4 | 105.4 | 1984.1 |
| 105.7 | 65.8 | 52.4 | 121.2 | 78.7 | 67.6 | 1310.9 |
| 51.9 | 63.2 | 56.6 | 82.7 | 132.2 | 89.8 | 1486 |
| 125.5 | 76.9 | 105.4 | 134.7 | 50.6 | 68.5 | 1851.9 |
| 59.5 | 148.9 | 80.6 | 110.1 | 76.4 | 109.2 | 2175.4 |
| 135.6 | 124.5 | 86.4 | 87 | 117.8 | 103.6 | 2102 |
| 135.9 | 50.1 | 95.4 | 116.5 | 133.1 | 59.9 | 1594.9 |
| 92.4 | 95 | 145.8 | 51.1 | 115.9 | 132.2 | 2706.1 |
| 122.8 | 57.1 | 117.2 | 97.5 | 113.9 | 129.3 | 2278.1 |
| 119.6 | 134.1 | 91 | 111.7 | 65.8 | 95.7 | 2125 |
| 61.1 | 104 | 50.2 | 140 | 149.2 | 126.2 | 1821.9 |
| 92.9 | 134.3 | 76.3 | 134.7 | 128.5 | 130.3 | 2210.8 |
| 129.1 | 142.7 | 131.9 | 78.4 | 104.6 | 111.6 | 2644.5 |
| 146 | 143.8 | 69.5 | 114.9 | 133.4 | 54.7 | 1710.4 |
| 143.1 | 133.3 | 120.8 | 97.4 | 114.7 | 138.4 | 2684.3 |
| 86.6 | 97.6 | 95.7 | 65 | 56.9 | 54.6 | 1759.4 |
| 94.3 | 147.9 | 72 | 96.9 | 57.1 | 139 | 2279.6 |
| 102.1 | 116.5 | 66.8 | 51 | 142.1 | 108.9 | 1912.3 |
| 145.8 | 114.1 | 131.8 | 147.1 | 116.2 | 147.1 | 2753.1 |
| 107.6 | 96.7 | 117.6 | 112.2 | 145.6 | 131.3 | 2448.2 |
| 100.1 | 113.5 | 61.2 | 131.4 | 77.3 | 90.5 | 1734.4 |
| 147.3 | 136.9 | 125.1 | 121.4 | 114.7 | 61.3 | 2240.5 |
| 89.4 | 124.9 | 64.1 | 60.2 | 143.6 | 69.8 | 1675.4 |
| 100 | 103.9 | 62.7 | 79.7 | 92.5 | 69.3 | 1584.3 |
| 53.4 | 99.1 | 71 | 146.7 | 58.1 | 145.6 | 2119.3 |
| 78.2 | 117.2 | 54.5 | 130.5 | 119.3 | 145.6 | 2038.2 |
| 143.7 | 62.6 | 50.2 | 101.7 | 133.2 | 60.1 | 1243.8 |
| 137.2 | 119.4 | 96.1 | 112.3 | 54.6 | 78.8 | 2014.9 |
| 94 | 135.1 | 123.8 | 61.4 | 136.1 | 131.6 | 2657.7 |
| 89.4 | 73.5 | 136.6 | 107.7 | 61.3 | 103.4 | 2352.1 |
| 87.5 | 116.6 | 97.5 | 87.9 | 71.4 | 61.3 | 1893.5 |
| 139.6 | 66.6 | 145.1 | 95.8 | 74.5 | 69.8 | 2187.6 |
| 59.9 | 65.2 | 100.4 | 137.8 | 66.8 | 137.5 | 2195.6 |
| 128.1 | 75.2 | 74 | 111.3 | 116.7 | 138.5 | 2008.7 |
| 142.7 | 52.8 | 62.3 | 78.3 | 111.3 | 83.9 | 1459 |
| 73.6 | 95.8 | 91.7 | 100.3 | 108.9 | 121.3 | 2144.9 |
| 147.9 | 59.4 | 103.1 | 63.7 | 54 | 113.7 | 2048.3 |
| 113.9 | 50.7 | 63.4 | 116 | 112.7 | 116.4 | 1665.9 |
| 83.2 | 96.2 | 135.9 | 53.5 | 125.2 | 82.6 | 2304.2 |
| 122.1 | 61 | 76.2 | 100.9 | 116.4 | 89.4 | 1658.1 |
| 54.9 | 53.1 | 55 | 142 | 66.8 | 108.8 | 1549.2 |
| 121.7 | 57.3 | 109.8 | 65.7 | 56.9 | 65.1 | 1792.6 |
| 113.5 | 51.7 | 120.5 | 98.7 | 95.1 | 135 | 2306 |
| 82.2 | 99.9 | 100.1 | 71.6 | 129.1 | 140.3 | 2356.6 |
| 84.8 | 83.6 | 125.1 | 144.3 | 145.1 | 97.5 | 2248.6 |
| 72.1 | 130.1 | 115.4 | 82.6 | 141.9 | 149.6 | 2674.5 |
| 133.1 | 117.4 | 104 | 77.4 | 87.1 | 138.5 | 2449.7 |
| 82 | 55.6 | 82.4 | 75.7 | 149.3 | 61 | 1509.1 |
| 146.7 | 126.8 | 78.6 | 128 | 144.1 | 57.6 | 1746.3 |
| 86.4 | 50.8 | 90.1 | 133.5 | 122.3 | 139.1 | 2056 |
| 108.7 | 112.5 | 89.1 | 130.8 | 58.9 | 80 | 1924.4 |
| 145.3 | 101.7 | 106.9 | 54.5 | 73.2 | 147.3 | 2477.8 |
| 90.5 | 69.1 | 81.8 | 54.4 | 139.3 | 138.7 | 2043.3 |
| 117.5 | 68.2 | 89.2 | 72.4 | 134.3 | 59.8 | 1623.5 |
| 79.4 | 80.8 | 90.8 | 84.8 | 125.6 | 80.3 | 1807.8 |
| 71.4 | 91.1 | 111.1 | 126.1 | 122.1 | 77.7 | 2023.9 |
| 147.1 | 61.9 | 135.2 | 103 | 104.8 | 61.9 | 2026.6 |
| 120.2 | 92.4 | 103.2 | 144.5 | 55.7 | 133.3 | 2311.2 |
| 66.3 | 129.7 | 106.4 | 143.6 | 98.7 | 100 | 2281.4 |
| 86.2 | 82.4 | 62.7 | 55.7 | 55.3 | 105.3 | 1720 |
| 136.1 | 95 | 84.9 | 110.6 | 82 | 65.4 | 1724.2 |
| 106.1 | 65.7 | 66 | 54.3 | 141.2 | 53.2 | 1354.8 |
| 123.7 | 123.1 | 63.6 | 131.8 | 50.8 | 146.2 | 2144.4 |
| 110.4 | 148.3 | 96.1 | 147.1 | 102.9 | 140.6 | 2523.3 |
| 123.9 | 82.4 | 128.8 | 102.6 | 137.3 | 78.1 | 2153.8 |
| 99.8 | 108 | 123.5 | 71 | 57 | 93 | 2307.4 |
| 53.3 | 132.1 | 81.9 | 147.5 | 79.5 | 140 | 2322.4 |
| 106.4 | 108.5 | 109.6 | 92.5 | 78.6 | 112.9 | 2299.2 |
| 59.2 | 104.8 | 58.2 | 145.7 | 106.1 | 73.2 | 1559.2 |
| 84 | 88.4 | 73.4 | 121 | 55.1 | 119.5 | 1932.8 |
| 51.3 | 108.3 | 115.7 | 83.5 | 128.2 | 116.8 | 2383.3 |
| 126.2 | 74.8 | 83.8 | 148 | 84.2 | 63.5 | 1616.2 |
| 80.7 | 132.8 | 86.5 | 67 | 109.9 | 84 | 2010.2 |
| 86.9 | 91 | 138.3 | 117.2 | 61.6 | 115.3 | 2501.4 |
| 126.8 | 99.7 | 134.1 | 122.6 | 60.7 | 55.2 | 2131.3 |
| 123.1 | 87.5 | 106.1 | 115.8 | 123.8 | 72.3 | 1931.3 |
| 70.8 | 138.4 | 85.3 | 91.2 | 111 | 112.4 | 2196.5 |
| 146.4 | 78.3 | 68.8 | 96.3 | 106 | 64.1 | 1497 |
| 116.2 | 113.8 | 124.5 | 128.2 | 81.5 | 91.1 | 2325.7 |
| 50.3 | 67.4 | 112.6 | 87.8 | 96.6 | 80.4 | 1955.9 |
| 107.4 | 94.9 | 133.8 | 124.4 | 100.8 | 62.5 | 2157.1 |
| 137.8 | 72 | 114 | 107.8 | 72.9 | 66.4 | 1898.7 |
| 130.6 | 143.6 | 140.3 | 72.9 | 68.9 | 112.3 | 2732.2 |
| 123.9 | 58.8 | 94.1 | 55.3 | 56.3 | 121.9 | 2015.3 |
| 118.5 | 93 | 138.5 | 54 | 52.6 | 102.1 | 2447.7 |
| 136.1 | 51.6 | 131.9 | 111.6 | 75.7 | 118.7 | 2321.9 |
| 56.2 | 54.2 | 79 | 100.9 | 73.9 | 102 | 1731.3 |
| 56.3 | 147.8 | 72.2 | 82.8 | 64.8 | 145 | 2330 |
| 90.1 | 51.1 | 128.4 | 57.3 | 125.4 | 128.5 | 2339.7 |
| 80.1 | 109.9 | 89.1 | 50.3 | 74.2 | 65.9 | 1815.7 |
| 107.8 | 121.2 | 64.6 | 53.2 | 51.3 | 91.8 | 1813.6 |
| 123 | 68.7 | 113.4 | 66.3 | 97.5 | 66.4 | 1880.2 |
| 120.7 | 69.2 | 111.3 | 145.1 | 138.5 | 148.1 | 2381.1 |
| 62.6 | 73.7 | 136.2 | 118.7 | 86.2 | 116.3 | 2428.6 |
| 67.9 | 121.9 | 86.8 | 59.8 | 62.2 | 100.2 | 2077.5 |
| 98.6 | 73.1 | 92.4 | 117.5 | 128 | 72.3 | 1747.9 |
| 143.4 | 139 | 138.4 | 52.5 | 124.6 | 52.2 | 2312.2 |
| 78.3 | 81.3 | 134.8 | 116.1 | 52 | 102.9 | 2355.7 |
| 99.2 | 136.1 | 79.7 | 100.5 | 101.2 | 110.6 | 2124.8 |
| 51.3 | 89.8 | 121.2 | 53.7 | 73.3 | 126.1 | 2420.3 |
| 83.7 | 65.7 | 121 | 103.8 | 59.9 | 64.6 | 1928.8 |
| 145.7 | 124.6 | 133.5 | 65.7 | 79.8 | 56.8 | 2231.7 |
| 124.6 | 129.7 | 148.1 | 69.2 | 51.8 | 117 | 2775.8 |
| 57.2 | 111.9 | 82.4 | 125.2 | 87.2 | 85.8 | 1895.8 |
| 101.6 | 72.4 | 130.6 | 104.5 | 82.5 | 138.2 | 2505.6 |
| 111.2 | 73.4 | 143.1 | 61.5 | 104.6 | 74.5 | 2227.5 |
| 129.3 | 65.4 | 143.8 | 140.8 | 60.6 | 89.7 | 2298.5 |
| 121.2 | 123.5 | 113.8 | 110.6 | 134.9 | 62.5 | 2083.7 |
| 147 | 102.9 | 105.1 | 92.3 | 118.6 | 74.1 | 1992.3 |
| 124.6 | 70.5 | 139.9 | 96.9 | 58.8 | 51.2 | 2033.6 |
| 146.3 | 79.4 | 88 | 89.7 | 90.6 | 85 | 1812.4 |
| 140.5 | 100.5 | 58.5 | 91.2 | 146.6 | 96.9 | 1690.4 |
| 66.3 | 120.3 | 66.6 | 95.4 | 124.3 | 122.4 | 2012.6 |
| 113.5 | 80.3 | 64.5 | 81.5 | 107.4 | 66.2 | 1491.1 |
| 114.3 | 72.8 | 91.5 | 64.8 | 107.4 | 101.2 | 1924.1 |
| 125.5 | 115.2 | 67.5 | 82.9 | 71.9 | 92.9 | 1813.3 |
| 81.2 | 109.1 | 133.4 | 115.3 | 135.5 | 139.8 | 2691.1 |
| 126 | 108.7 | 107.2 | 139.3 | 73.9 | 58.9 | 1945.8 |
| 119.4 | 112.8 | 93.1 | 148.5 | 96.4 | 83.1 | 1980.5 |
| 92.6 | 107 | 113.8 | 70.8 | 81.4 | 83.9 | 2159.8 |
| 140.9 | 68.3 | 140.5 | 93.2 | 114.6 | 107.4 | 2397.1 |
| 71.6 | 125.7 | 87.4 | 94.5 | 96.3 | 145 | 2373.6 |
| 87.2 | 138.8 | 125.5 | 134.6 | 59.3 | 106.5 | 2531.8 |
| 63.8 | 141.1 | 101 | 53 | 53.2 | 106.1 | 2323.4 |
| 134.4 | 90.3 | 140.2 | 73.3 | 83.8 | 140.7 | 2687.6 |
| 60.5 | 96 | 123.6 | 118.4 | 55.3 | 94.5 | 2268 |
| 131.8 | 80.5 | 65.1 | 101.6 | 133.2 | 69.3 | 1511.8 |
| 103.4 | 55 | 85.4 | 78.1 | 123.5 | 130.7 | 1973 |
| 68.7 | 148.9 | 145.8 | 143.5 | 56.3 | 114.2 | 2812.6 |
| 141.2 | 88.4 | 70.4 | 68.7 | 85.3 | 71.9 | 1607.2 |
| 108.8 | 74.1 | 110.5 | 126 | 89.8 | 119.3 | 2222.1 |
| 105.6 | 148.2 | 78.9 | 76.9 | 144.3 | 69.6 | 1908.1 |
| 127.1 | 145.1 | 62.3 | 101.1 | 83.3 | 103.3 | 1961.8 |
| 51 | 122.2 | 83.2 | 122.8 | 138.2 | 141.1 | 2298.7 |
| 92.8 | 82.3 | 79.8 | 80.5 | 114.3 | 85.9 | 1746.3 |
| 75.2 | 55.5 | 63.2 | 145.7 | 87.1 | 55.6 | 1303.3 |
| 82.1 | 58.5 | 79.4 | 63.5 | 120 | 57.8 | 1471.6 |
| 122.9 | 64.3 | 115.7 | 92.4 | 130.4 | 90.3 | 2031.1 |
| 83.4 | 121.6 | 94.8 | 133.7 | 64.8 | 108.9 | 2204.4 |
| 79.3 | 115 | 112.3 | 95.5 | 111.6 | 109.6 | 2341.6 |
| 76.8 | 125.7 | 61.5 | 136.5 | 90.2 | 137.6 | 2084 |
| 90.2 | 52.1 | 149.4 | 58.7 | 88 | 104.6 | 2388 |
| 59.2 | 142.4 | 92.7 | 97.8 | 85.7 | 94.7 | 2179.1 |
| 137 | 69.9 | 116.9 | 120.6 | 56.2 | 76.6 | 1981.8 |
| 60.7 | 119.2 | 65.8 | 109.9 | 65.9 | 105.2 | 1894.3 |
| 129.1 | 65 | 109.5 | 123.1 | 85.8 | 139 | 2287.3 |
| 132.6 | 86.2 | 58.4 | 109.5 | 131.5 | 61.2 | 1417.5 |
| 54.8 | 120 | 142.5 | 60.6 | 76.1 | 58.3 | 2312.3 |
| 141.6 | 143.2 | 127.7 | 85.9 | 84.2 | 86 | 2444.7 |
| 96.5 | 88.9 | 141.2 | 94.4 | 88.2 | 68.4 | 2235.5 |
| 137.6 | 103.6 | 76.6 | 78.1 | 101.8 | 115.1 | 1988.7 |
| 134.8 | 117.6 | 103.4 | 139.2 | 123.8 | 142 | 2461 |
| 142.9 | 120.5 | 92.2 | 58.9 | 141.5 | 138 | 2349 |
| 65.1 | 113 | 125 | 62.1 | 54 | 53.3 | 2081.9 |
| 125.8 | 68.3 | 69.4 | 114.6 | 109.3 | 106.1 | 1732 |
| 52.4 | 51.8 | 147.2 | 69.8 | 73.5 | 71.4 | 2153.4 |
| 69.6 | 128.4 | 51.6 | 90.5 | 88.8 | 136.1 | 2004.1 |
| 101.1 | 138.3 | 64.1 | 105.7 | 68.1 | 62.8 | 1688.1 |
| 65.7 | 117.2 | 149 | 128.8 | 93 | 137.9 | 2861 |
| 137 | 114.8 | 116.5 | 70.6 | 53.5 | 65.6 | 2092.3 |
| 134.4 | 89.7 | 123.4 | 147 | 81.3 | 95.9 | 2251 |
| 70.6 | 106.8 | 73.2 | 70.6 | 143 | 132.1 | 2079.2 |
| 126.5 | 81.5 | 137.3 | 80.1 | 134.7 | 58.5 | 2102.8 |
| 87.3 | 68.8 | 115.6 | 140.2 | 82.2 | 117 | 2214.5 |
| 120.4 | 73.6 | 72.7 | 72.3 | 58.7 | 101.1 | 1738.7 |
| 72.3 | 116.7 | 101.9 | 79.2 | 80.4 | 120.9 | 2316.8 |
| 120.8 | 55.3 | 99.2 | 76.4 | 94 | 120.6 | 2034.1 |
| 73 | 135.3 | 76.2 | 146.9 | 104.1 | 107.6 | 2072.8 |
| 126.6 | 76.4 | 99.8 | 122.7 | 98.8 | 119.1 | 2126.1 |
| 85.4 | 71.2 | 88.8 | 106.5 | 129.8 | 78.2 | 1751 |
| 121.9 | 64.7 | 50.8 | 99.1 | 100.4 | 124 | 1659.7 |
| 93.3 | 68 | 94.7 | 127.7 | 149.2 | 65.2 | 1703.1 |
| 98.7 | 141 | 77.6 | 148.6 | 66.3 | 98.6 | 2055.9 |
| 145.9 | 86.6 | 110.8 | 132.4 | 69.3 | 132.3 | 2350.7 |
| 73 | 59.4 | 122.5 | 131.6 | 90.2 | 115.8 | 2244.7 |
| 91.2 | 60.3 | 120.8 | 103.4 | 94.6 | 118.6 | 2241.9 |
| 89.8 | 80.7 | 75.9 | 122.7 | 124 | 65 | 1579 |
| 110.7 | 58.8 | 90.5 | 131 | 85.8 | 107.7 | 1886 |
| 133 | 91.2 | 84.3 | 85 | 103.8 | 82.7 | 1811.4 |
| 115.2 | 78.3 | 103.3 | 123.9 | 72.9 | 108.8 | 2102.4 |
| 149.6 | 145.9 | 76.5 | 81.6 | 76.9 | 105.8 | 2108.3 |
| 129.9 | 131.2 | 99 | 133.6 | 138.2 | 122.1 | 2359.7 |
| 54.8 | 87.6 | 72.6 | 81.4 | 140 | 51 | 1498 |
| 68 | 73.5 | 144.2 | 114.7 | 140.2 | 67.8 | 2191.2 |
| 112 | 146.5 | 57.8 | 73.7 | 129.8 | 131.1 | 2098.2 |
| 53.5 | 57.5 | 137.9 | 143.8 | 53.4 | 68.8 | 2095.3 |
| 130.4 | 104.1 | 104.7 | 59.1 | 134 | 143.5 | 2440.5 |
| 70.9 | 146.1 | 101.1 | 125.7 | 110.1 | 93.6 | 2264.9 |
| 79.4 | 66.2 | 55 | 69 | 135.4 | 78.9 | 1408.3 |
| 98 | 98.3 | 104.3 | 94.8 | 128.7 | 97.4 | 2116.5 |
| 119.8 | 90.1 | 106.7 | 86.5 | 57.5 | 95.9 | 2103.9 |
| 102.3 | 121.4 | 112 | 115.6 | 56.9 | 144.4 | 2581.3 |
| 69.1 | 65.1 | 101.7 | 100.4 | 88.9 | 93.3 | 1928.3 |
| 146.6 | 76.1 | 61.5 | 137.1 | 136.8 | 60.9 | 1402.3 |
| 99.3 | 101.6 | 67.4 | 107.8 | 91.6 | 77 | 1662.3 |
| 101.6 | 54.9 | 62.8 | 109.3 | 145.8 | 61.5 | 1334.4 |
| 77 | 105.3 | 126.7 | 77 | 113.5 | 51.2 | 2057.5 |
| 79 | 100.2 | 64.5 | 103.3 | 54.9 | 114.3 | 1868.3 |
| 101.1 | 76.4 | 71.4 | 68.3 | 110.7 | 134.3 | 1952.8 |
| 100.9 | 143.9 | 121.7 | 72.6 | 113.2 | 55.9 | 2200.4 |
| 143 | 122.7 | 80.9 | 104.7 | 94 | 87.5 | 1939.9 |
| 134.3 | 59.4 | 53.9 | 67.1 | 92.1 | 53.1 | 1213.5 |
| 133 | 77 | 74.4 | 135.7 | 107.4 | 99.6 | 1773.1 |
| 56.6 | 101.6 | 138.5 | 87.1 | 134.4 | 134.9 | 2684.8 |
| 81.9 | 131.7 | 65.1 | 77.4 | 71.8 | 103.1 | 1925.2 |
| 88.7 | 54.4 | 76.2 | 102.6 | 84.7 | 133.1 | 1895.1 |
| 66.3 | 103 | 87.6 | 148 | 107.9 | 54.3 | 1704.8 |
| 142.3 | 93.9 | 54.3 | 133.6 | 86.6 | 109.6 | 1717 |
| 104.6 | 60.2 | 123.1 | 137.9 | 81.9 | 50.8 | 1834.6 |
| 141.4 | 52.6 | 136.4 | 63.2 | 132.7 | 93.2 | 2195.7 |
| 80.1 | 94.2 | 128.7 | 143.5 | 126.5 | 94.4 | 2304.2 |
| 105.9 | 98.6 | 146 | 94.6 | 139.8 | 146.9 | 2820.1 |
| 62 | 84.1 | 57.2 | 99.6 | 55.5 | 60.2 | 1387.5 |
| 81 | 108.5 | 106.9 | 85.4 | 124.1 | 133.3 | 2411.6 |
| 93.5 | 81.9 | 70.2 | 61.5 | 98.8 | 53.8 | 1459.3 |
| 85.4 | 141.4 | 122.3 | 98.6 | 81.9 | 105.3 | 2507.9 |
| 142.6 | 69.2 | 61.5 | 79.5 | 70.6 | 89.8 | 1557.8 |
| 140.2 | 66.2 | 52 | 125.4 | 88.9 | 122.1 | 1656.7 |
| 61.4 | 148.4 | 81.2 | 133.2 | 61.6 | 64.5 | 1905.9 |
| 113.2 | 89 | 86.5 | 134.1 | 94.4 | 115.3 | 2020.5 |
| 70.3 | 117.3 | 59.8 | 112.7 | 63.1 | 111.3 | 1878.7 |
| 141.7 | 53 | 83.5 | 93.2 | 108.3 | 56.7 | 1480.6 |
| 109.2 | 137.6 | 136.2 | 50.7 | 89.4 | 148.6 | 2887.4 |
| 129.3 | 82.5 | 97.3 | 121.4 | 73.8 | 96.5 | 1979.3 |
| 51.9 | 123.9 | 77.2 | 51.6 | 133.3 | 124.6 | 2145.7 |
| 52.8 | 88.8 | 147.1 | 77.1 | 126 | 128.4 | 2665.9 |
| 109.9 | 91.4 | 147.1 | 137.1 | 107.4 | 111.9 | 2578.2 |
| 108 | 104.4 | 112 | 73.6 | 92.8 | 69.6 | 2043.4 |
| 124.5 | 80.2 | 52.9 | 77.1 | 149.5 | 61 | 1338.9 |
| 131.5 | 59.3 | 72.2 | 122.1 | 110.9 | 118.3 | 1784.1 |
| 59 | 131.5 | 114.3 | 114.8 | 66.9 | 100.1 | 2359.9 |
| 129.7 | 105.5 | 144.8 | 125.4 | 91.3 | 122.7 | 2682.1 |
| 109.6 | 91.9 | 55.9 | 137.9 | 94 | 133.4 | 1863.9 |
| 119.4 | 129.4 | 88.5 | 58.5 | 115.1 | 99 | 2110.7 |
| 89 | 128.8 | 129.9 | 66 | 63 | 74.7 | 2334.1 |
| 125.4 | 133.1 | 112 | 97.3 | 71.8 | 65.8 | 2132 |
| 126 | 92.9 | 143.3 | 85.8 | 69.1 | 51.3 | 2162.9 |
| 69.8 | 129.1 | 95.6 | 103.1 | 148 | 126.2 | 2347.3 |
| 106.3 | 117.5 | 91.6 | 143.7 | 57.3 | 134.6 | 2306.7 |
| 56.3 | 78.9 | 78 | 101.8 | 61.5 | 103.7 | 1842.6 |
| 81.8 | 63.3 | 84 | 53.4 | 104 | 91.8 | 1755.6 |
| 53.3 | 124.9 | 63.5 | 89.8 | 109 | 131 | 2065.2 |
| 68 | 70.3 | 73.4 | 101.6 | 119.7 | 93.1 | 1692.9 |
| 62.9 | 93.4 | 145.1 | 61.2 | 126 | 82.1 | 2377.4 |
| 101.7 | 96.6 | 108.4 | 141.5 | 149.5 | 138.2 | 2402.7 |
| 73.6 | 123.1 | 130.7 | 103.7 | 95.6 | 79 | 2341.1 |
| 115.3 | 95.8 | 144.6 | 133.9 | 123.8 | 77.3 | 2346.5 |
| 135 | 137 | 118.1 | 74.5 | 98.2 | 92.8 | 2377.3 |
| 84.6 | 148.9 | 127.1 | 141.7 | 77.2 | 57.8 | 2284.2 |
| 71 | 106.6 | 102.6 | 110.5 | 122.2 | 104.8 | 2186.7 |
| 141.6 | 102.2 | 75 | 87.5 | 75.9 | 120 | 2010.4 |
| 128.8 | 83.3 | 72.5 | 142.1 | 89.5 | 118.8 | 1898 |
| 50.3 | 144 | 103.5 | 126.1 | 141.1 | 121.1 | 2446.7 |
| 122.9 | 55 | 72.2 | 113.3 | 93.9 | 68.7 | 1472.1 |
| 86.4 | 62.8 | 120.7 | 101.7 | 149.6 | 77.2 | 1993.6 |
| 111.9 | 109.3 | 100 | 90 | 110.8 | 83.3 | 2037.9 |
| 101.7 | 58.4 | 67.3 | 71.4 | 121.6 | 55.1 | 1345.8 |
| 57.1 | 91.7 | 90.7 | 51 | 121.3 | 63.8 | 1756.2 |
| 72.6 | 81.5 | 130.3 | 91.9 | 73.2 | 126.5 | 2471.5 |
| 117.2 | 141.1 | 148 | 145.4 | 88.9 | 120.6 | 2838 |
| 102.4 | 77.2 | 57.9 | 126 | 121.2 | 144.2 | 1895.1 |
| 144 | 94.6 | 89.3 | 134 | 51.2 | 112.1 | 2051.1 |
| 136.5 | 122.3 | 93.1 | 92.5 | 56.6 | 109.8 | 2193.3 |
| 54.2 | 92.5 | 112.4 | 69.5 | 77.3 | 124.5 | 2341.1 |
| 79.9 | 71.4 | 106.4 | 139.4 | 114.5 | 63.8 | 1811.6 |
| 111 | 125.4 | 86.2 | 78.8 | 79.3 | 88.3 | 2003.3 |
| 141.9 | 86.6 | 147.1 | 51.7 | 72.2 | 130.8 | 2673.6 |
| 142.5 | 59.3 | 101.7 | 56.9 | 135.7 | 144 | 2224.6 |
| 109.8 | 107.4 | 61.9 | 95.9 | 117.2 | 71 | 1603 |
| 137.9 | 66.7 | 81.1 | 121.4 | 50.1 | 79.3 | 1650.3 |
| 118.1 | 118.1 | 128.5 | 141.2 | 124.6 | 110.8 | 2506.3 |
| 105.1 | 58.6 | 101.2 | 106.5 | 85.3 | 116.9 | 2052.6 |
| 57 | 118.8 | 126.4 | 75.7 | 60.3 | 89.6 | 2363.4 |
| 61 | 149.3 | 138.9 | 103 | 101.5 | 72.8 | 2484.8 |
| 107.9 | 99.9 | 82.4 | 99.7 | 82.5 | 148.8 | 2253.4 |
| 101.7 | 123.7 | 76.2 | 87.3 | 130.6 | 138.2 | 2221.5 |
| 141.3 | 86.6 | 134.4 | 71.4 | 135.9 | 79.2 | 2235.1 |
| 108.8 | 141.1 | 99.2 | 128 | 55 | 76.8 | 2115 |
| 118.8 | 53.9 | 104.2 | 81.3 | 75.1 | 95.2 | 1920.7 |
| 112.5 | 132.5 | 146.5 | 55.1 | 140.2 | 72.9 | 2487.8 |
| 138.8 | 96.1 | 54.4 | 134.1 | 145.7 | 116.1 | 1770.8 |
| 143.8 | 118.2 | 76.9 | 130.7 | 71.5 | 115.1 | 2057.7 |
| 122.2 | 103.2 | 124.8 | 79.4 | 107.9 | 122.1 | 2481.8 |
| 125.8 | 67.4 | 89.9 | 118.3 | 51.9 | 57 | 1591.9 |
| 85.8 | 102.1 | 82.4 | 130 | 78 | 79.2 | 1812.6 |
| 138.5 | 74.5 | 101.5 | 99.6 | 146.8 | 97.4 | 2001.5 |
| 81.5 | 52 | 61.8 | 107.5 | 52.2 | 75.6 | 1396.9 |
| 119 | 114.1 | 97.8 | 102.9 | 105.3 | 124.8 | 2295.7 |
| 69.9 | 96.9 | 114.8 | 92.2 | 115.3 | 51 | 1923 |
| 72.7 | 80.8 | 149.3 | 148.5 | 54.1 | 102.2 | 2499.5 |
| 69.8 | 146.5 | 68.6 | 93.7 | 82 | 126.1 | 2164.6 |
| 58.8 | 95.9 | 95 | 94.9 | 128.5 | 132.5 | 2244 |
| 129.1 | 100.6 | 139.7 | 80.1 | 72 | 112.1 | 2545.6 |
| 93.9 | 106.5 | 50.7 | 56 | 108.8 | 58.3 | 1412.2 |
| 82.9 | 71.8 | 106.2 | 140.5 | 99.4 | 102 | 2053 |
| 77.5 | 85.4 | 109.5 | 137.1 | 106.3 | 75.6 | 1970.9 |
| 144.8 | 80.7 | 89.5 | 60.2 | 81.1 | 79.8 | 1792.5 |
| 113.6 | 112 | 131.7 | 85.3 | 50.5 | 91.2 | 2389.6 |
| 88.2 | 100.4 | 69.1 | 63.8 | 52.8 | 108.1 | 1868.5 |
| 128.2 | 140.3 | 69.6 | 107.2 | 78.3 | 111.8 | 2071.6 |
| 125.8 | 144.3 | 117.7 | 64.7 | 81.6 | 95.2 | 2421.8 |
| 77.1 | 79 | 89.7 | 75.3 | 92.2 | 62.7 | 1678.7 |
| 70.7 | 55.5 | 148.3 | 109.9 | 79.9 | 133.3 | 2580.4 |
| 68.3 | 56.5 | 81.5 | 121.5 | 56.7 | 100.9 | 1765.5 |
| 77.6 | 70 | 76.2 | 111.2 | 133.1 | 86.8 | 1677.8 |
| 55.4 | 113.4 | 97.3 | 69.6 | 138.5 | 136.7 | 2361.9 |
| 68 | 65.8 | 52 | 124.7 | 140.1 | 54.8 | 1241.4 |
| 65 | 74.7 | 120.1 | 88.3 | 100.5 | 67.4 | 1975.9 |
| 132.1 | 88.1 | 146.7 | 113.7 | 118.2 | 78.4 | 2338.1 |
| 75.7 | 74.3 | 126.9 | 116.5 | 120.2 | 108.3 | 2297.8 |
| 65.6 | 105.3 | 101.1 | 72.5 | 89.4 | 145.9 | 2411.1 |
| 51 | 91.7 | 110.2 | 51.2 | 100.5 | 74.3 | 1997.4 |
| 138 | 66.4 | 91.9 | 83.9 | 144.8 | 117.1 | 2000.4 |
| 68.8 | 96.3 | 93 | 146.8 | 52.1 | 71.7 | 1830.9 |
| 123.9 | 97.9 | 73.3 | 97.7 | 96.9 | 63.1 | 1620.2 |
| 76.7 | 86.1 | 60.2 | 139.1 | 125.5 | 95.6 | 1646.4 |
| 142.2 | 139.9 | 143 | 144.7 | 132.3 | 126.9 | 2832.7 |
| 123 | 94.1 | 99.7 | 109.5 | 120.9 | 59.2 | 1816.1 |
| 84.6 | 95.6 | 127.9 | 73 | 114.3 | 97.3 | 2322.9 |
| 81.3 | 149 | 139.7 | 145.7 | 68.5 | 108.9 | 2712.9 |
| 61.5 | 67.5 | 82.7 | 65 | 123.9 | 126.1 | 1971.2 |
| 106.5 | 106.7 | 143.1 | 147.9 | 117.5 | 120.9 | 2656.7 |
| 118 | 132.5 | 96.5 | 70.4 | 143.5 | 118.9 | 2323.9 |
| 113.3 | 134 | 147.3 | 54.1 | 89.1 | 79.6 | 2549.4 |
| 101.6 | 50.2 | 54 | 96.7 | 143 | 112.4 | 1552.5 |
| 87 | 68.7 | 144.3 | 64.8 | 58.7 | 111.7 | 2457.7 |
| 132.5 | 64.4 | 86 | 88.4 | 98.4 | 100.7 | 1834.1 |
| 141 | 63.6 | 81.5 | 123.7 | 51.1 | 68.1 | 1580.7 |
| 63.2 | 123.7 | 77.8 | 117.3 | 85 | 109.7 | 2050.8 |
| 142.5 | 89.8 | 134.9 | 136.2 | 114.2 | 94.6 | 2343.5 |
| 64.6 | 149.6 | 114.8 | 132.2 | 64.3 | 96.9 | 2420.6 |
| 143.8 | 116.7 | 104.1 | 109.1 | 58.3 | 99.5 | 2206.2 |
| 121 | 142.7 | 80.3 | 56 | 53.7 | 79.1 | 1966.4 |
| 107.6 | 54.1 | 69.3 | 89.4 | 149.2 | 115.3 | 1727.3 |
| 88.5 | 147 | 70.9 | 130.1 | 87.3 | 86.6 | 1934.2 |
| 82.9 | 50.3 | 142.8 | 101.5 | 52 | 77.8 | 2151.6 |
| 102.1 | 134 | 138.6 | 102.5 | 125.4 | 60.4 | 2345.6 |
| 94 | 104.6 | 108.1 | 88.5 | 124 | 118.5 | 2308.5 |
| 100.6 | 74.4 | 120.7 | 72.2 | 57.1 | 85.8 | 2101.7 |
| 63.8 | 103.5 | 115.8 | 139.5 | 106.6 | 135.7 | 2480.2 |
| 114.6 | 55.1 | 70.2 | 107 | 115.3 | 112.6 | 1721.1 |
| 52.1 | 68.6 | 130.6 | 118.1 | 57.1 | 111.5 | 2330.1 |
| 67.7 | 136.4 | 105.7 | 122.6 | 93.8 | 65.4 | 2094 |
| 131.7 | 77.1 | 57.1 | 58 | 91.3 | 106.3 | 1649.6 |
| 60.5 | 61 | 61.4 | 130.9 | 100.5 | 83.8 | 1475.4 |
| 138.6 | 98 | 121 | 146.7 | 90 | 87.2 | 2207.6 |
| 136.1 | 89.4 | 70 | 64.1 | 104.4 | 58.3 | 1520.3 |
| 73.9 | 74.2 | 57.5 | 138.6 | 60.2 | 83.5 | 1501.8 |
| 81.7 | 59.8 | 58 | 105.2 | 70.5 | 141.3 | 1806.8 |
| 140 | 111.8 | 110.2 | 115.7 | 52.1 | 119.4 | 2362.8 |
| 83.8 | 127.2 | 58.9 | 77.9 | 70.2 | 92.9 | 1797.6 |
| 68.9 | 142.1 | 96.9 | 140.1 | 100.2 | 109.8 | 2312.9 |
| 75.8 | 98.9 | 79.2 | 93.9 | 54.1 | 119.8 | 2037.9 |
| 127.4 | 149.7 | 58.6 | 134.7 | 64.5 | 93.5 | 1891.2 |
| 66.8 | 55.7 | 66 | 123.7 | 115.1 | 147.2 | 1897.6 |
| 103.5 | 121.8 | 96.1 | 58.6 | 104.5 | 76.2 | 1999.4 |
| 73.2 | 99.7 | 109.8 | 104.7 | 91.3 | 112.5 | 2263.7 |
| 94.2 | 81.9 | 86.4 | 132 | 109.8 | 109.5 | 1962.2 |
| 97.6 | 144.7 | 76.4 | 129 | 66.7 | 81.3 | 1960.7 |
| 86.4 | 52.3 | 118.1 | 137.4 | 109.9 | 100 | 2061.8 |
| 107.7 | 74.5 | 140.6 | 87.8 | 136.8 | 117.8 | 2482.4 |
| 116 | 147.7 | 58.1 | 71 | 84 | 133.8 | 2130.3 |
| 128.8 | 141.3 | 117 | 85.1 | 64.1 | 131 | 2616.4 |
| 52.6 | 68.7 | 94.8 | 135.6 | 141.3 | 57.9 | 1659 |
| 57.3 | 67.9 | 99.4 | 64.9 | 54.5 | 149.6 | 2268.2 |
| 123.7 | 143.8 | 114.2 | 51.9 | 66.3 | 65.9 | 2197.4 |
| 68.6 | 72.1 | 88.8 | 106.7 | 113.1 | 127.9 | 2062.3 |
| 92.7 | 138.5 | 68.6 | 76.6 | 57 | 109.5 | 2024.4 |
| 123.8 | 146.4 | 76.5 | 89.5 | 81.8 | 140.3 | 2325.3 |
| 126.5 | 132.1 | 51.2 | 89.1 | 125.1 | 87.3 | 1700.7 |
| 120.1 | 73.5 | 113.7 | 138.8 | 122.3 | 113.3 | 2210.7 |
| 149.9 | 113 | 58.1 | 116.7 | 131.1 | 138.6 | 2006 |
| 77.9 | 78.2 | 85.7 | 71.8 | 93.4 | 113.8 | 1971.7 |
| 134.2 | 52.5 | 123.1 | 53.4 | 126.8 | 113.4 | 2194.2 |
| 97.8 | 140.8 | 126.4 | 121.5 | 76.1 | 93.3 | 2470.5 |
| 89.6 | 95.8 | 112.4 | 116.6 | 121.5 | 137.5 | 2434.6 |
| 111.5 | 55.1 | 108.8 | 72.7 | 60.2 | 75.2 | 1838.8 |
| 146.9 | 101.5 | 125.7 | 84.1 | 127.5 | 97.4 | 2329.1 |
| 79 | 148.3 | 107.1 | 79.7 | 129.6 | 136.2 | 2594.3 |
| 77 | 58.9 | 131.4 | 90.9 | 108.4 | 139.8 | 2473 |
| 65.3 | 90.3 | 105.8 | 54.9 | 50.5 | 80.6 | 1989.7 |
| 123.2 | 95.1 | 92.9 | 60.4 | 55.6 | 50.7 | 1708.1 |
| 103.3 | 60 | 79.8 | 108 | 62.9 | 109.2 | 1813.4 |
| 143.3 | 105.6 | 77.5 | 140.1 | 129.6 | 90.2 | 1851.3 |
| 96.3 | 130.8 | 115 | 107.3 | 132.5 | 111.6 | 2438.3 |
| 112.8 | 138.8 | 149.2 | 127.4 | 58.3 | 64.7 | 2486.9 |
| 119.2 | 69 | 55 | 90.2 | 139.8 | 91.2 | 1501.6 |
| 115.6 | 129.6 | 141.4 | 54.7 | 50.5 | 70.2 | 2405 |
| 55.8 | 51.4 | 74.6 | 148.2 | 59.3 | 107.1 | 1711.8 |
| 137.3 | 77.5 | 110.9 | 112.4 | 78.6 | 80.6 | 1989.1 |
| 80.9 | 128.5 | 66.7 | 118.1 | 130.4 | 55.7 | 1628.2 |
| 96.5 | 78.4 | 127.6 | 122.8 | 92.6 | 107.5 | 2308.6 |
| 139.4 | 123.1 | 114.7 | 96.2 | 66.5 | 118.9 | 2451.6 |
| 51.8 | 67.9 | 122.9 | 132.9 | 101.3 | 59.8 | 1932.7 |
| 105.8 | 94.3 | 92.1 | 79.6 | 97.6 | 81.4 | 1896.7 |
| 82.3 | 144.2 | 146.3 | 105.7 | 92.6 | 60.3 | 2461.7 |
| 125.7 | 86 | 142.1 | 133.3 | 67.3 | 83.1 | 2328 |
| 124.7 | 126.3 | 131.9 | 121.6 | 121.5 | 63.8 | 2272.4 |
| 140 | 82.5 | 66 | 68.6 | 147.1 | 136.1 | 1940.9 |
| 69.1 | 125.9 | 104.6 | 126.4 | 133.7 | 57 | 1975.4 |
| 73.3 | 85.1 | 95.8 | 129 | 112.7 | 121.9 | 2143.4 |
| 111.2 | 138.1 | 56.7 | 93 | 139 | 107.5 | 1911.9 |
| 99.6 | 119.4 | 112.3 | 149.7 | 114.3 | 113 | 2380.6 |
| 133.1 | 77.6 | 112.9 | 124.3 | 130.7 | 88.5 | 2046.2 |
| 104.7 | 104.6 | 63.6 | 102.8 | 147.2 | 109.7 | 1846.6 |
| 50.6 | 143.1 | 148.6 | 139.4 | 59.9 | 135.9 | 2952.8 |
| 99.1 | 75.9 | 76.2 | 65 | 67.6 | 133.7 | 1993.7 |
| 72 | 120 | 65 | 115 | 53.8 | 140.2 | 2104.8 |
| 73.2 | 89 | 125.6 | 70 | 105.3 | 82.6 | 2177.6 |
| 54.3 | 145.6 | 126.2 | 139.1 | 69.5 | 56.6 | 2255.8 |
| 89.3 | 59.6 | 66.5 | 53.9 | 101.5 | 90.1 | 1551.3 |
| 131.5 | 85.5 | 146.8 | 86.3 | 68.6 | 144.9 | 2749.9 |
| 79.8 | 74.3 | 91.2 | 134.3 | 98 | 52.1 | 1609.6 |
| 81.3 | 98.7 | 78.6 | 119.8 | 107.2 | 58.2 | 1638.9 |
| 96.6 | 136.5 | 69.4 | 63.6 | 146.8 | 106.2 | 2004.4 |
| 69.2 | 131.3 | 88 | 82.6 | 128.7 | 122.4 | 2262.7 |
| 128 | 127.5 | 60.4 | 141.1 | 137.5 | 74.4 | 1684.5 |
| 94.6 | 126.7 | 90.8 | 79 | 76.1 | 54.4 | 1838.7 |
| 82.3 | 145.3 | 71.6 | 67.6 | 95.1 | 80.3 | 1905.1 |
| 143.7 | 117.9 | 146.4 | 108.6 | 78.3 | 118.2 | 2716.5 |
| 102.9 | 104.6 | 137.5 | 65 | 91.6 | 149.6 | 2767.2 |
| 114 | 76.7 | 88.8 | 72 | 149.1 | 93.9 | 1866 |
| 99.2 | 92.1 | 104.1 | 63.9 | 128.9 | 109.1 | 2157 |
| 58.2 | 83.8 | 134.6 | 138.6 | 145 | 80.9 | 2226.3 |
| 113.5 | 127 | 131.6 | 51.5 | 53.5 | 79 | 2376.5 |
| 58.9 | 118.3 | 123.3 | 87 | 115.8 | 68.4 | 2200.3 |
| 96 | 73.6 | 99.7 | 134.8 | 123 | 55.3 | 1706.3 |
| 119.3 | 78.3 | 135.9 | 51.9 | 115.5 | 138.3 | 2586.6 |
| 106 | 120.8 | 144.1 | 147 | 54.5 | 113 | 2670.9 |
| 117.3 | 56.1 | 138.6 | 72.1 | 129.1 | 84.2 | 2161.6 |
| 52.7 | 127.3 | 149.4 | 57.8 | 96.4 | 101.1 | 2679.8 |
| 123.6 | 99.5 | 62.4 | 64.8 | 149.7 | 77.1 | 1602.4 |
| 81.4 | 120.3 | 109.3 | 149.4 | 68.9 | 121.7 | 2407.1 |
| 55.2 | 82.4 | 119.2 | 50.5 | 103.6 | 105.5 | 2236.3 |
| 125.9 | 92.4 | 124.5 | 72.7 | 146.7 | 65.4 | 2084.6 |
| 104.8 | 69.6 | 104.7 | 70.8 | 81.8 | 138.7 | 2256.4 |
| 130.7 | 80.7 | 114.2 | 75.8 | 115.2 | 85.3 | 2060.2 |
| 134.7 | 52.9 | 114.9 | 75.3 | 125.6 | 65.3 | 1828.3 |
| 55.8 | 125.6 | 83.9 | 129 | 121.3 | 82.1 | 1943.7 |
| 57 | 53.1 | 107.6 | 135.7 | 130.5 | 113.7 | 2072.5 |
| 146.8 | 82 | 78.3 | 89.3 | 146 | 76.5 | 1676.3 |
| 112.5 | 81.9 | 143.8 | 77.5 | 127.1 | 107.4 | 2479.5 |
| 57.4 | 93.5 | 70 | 94.4 | 123.1 | 61.9 | 1565.1 |
| 142.9 | 106.2 | 92.7 | 70.1 | 61.3 | 146 | 2348.3 |
| 62.4 | 85.3 | 132.6 | 144.4 | 101.5 | 102.8 | 2351 |
| 62.2 | 87.3 | 136.8 | 128.6 | 86.2 | 59.4 | 2133.4 |
| 148.7 | 62.4 | 122.3 | 82.5 | 113.4 | 56.5 | 1879.7 |
| 144.4 | 75.9 | 71.6 | 133.6 | 137.9 | 68.2 | 1542.1 |
| 68.6 | 113.9 | 93.3 | 55.8 | 110.5 | 115.2 | 2194.2 |
| 148.6 | 117.6 | 132 | 109.7 | 116 | 73.4 | 2304.9 |
| 64.9 | 79.3 | 143 | 142 | 92.5 | 141.6 | 2672.1 |
| 92.1 | 94.2 | 116.5 | 134.4 | 59.4 | 62 | 1979 |
| 62.7 | 75.6 | 113.2 | 134 | 142.2 | 117.3 | 2239.3 |
| 115.5 | 81.6 | 147.9 | 67.4 | 108.2 | 90.9 | 2407.6 |
| 63.4 | 67.1 | 87.1 | 143.4 | 86.7 | 78.2 | 1702.7 |
| 138.5 | 83.3 | 53.1 | 58.4 | 96.3 | 67.3 | 1397.9 |
| 120.6 | 63.8 | 138.2 | 75.8 | 136 | 85.7 | 2218.5 |
| 50.5 | 125.4 | 86.2 | 117 | 130.9 | 113.5 | 2171.4 |
| 127.2 | 76.6 | 103.7 | 106.7 | 50.1 | 60.2 | 1783.6 |
| 78.4 | 89.1 | 147.7 | 101.9 | 65.8 | 123.1 | 2635.5 |
| 58.8 | 64.5 | 137.8 | 131.5 | 83.1 | 128 | 2477.1 |
| 89.1 | 85.2 | 114.6 | 121.3 | 89.8 | 142.1 | 2437.9 |
| 51.6 | 119.8 | 51 | 121.7 | 102.9 | 65 | 1508.6 |
| 59.6 | 59.2 | 148 | 77.5 | 101.9 | 115.5 | 2467.1 |
| 144.8 | 77.2 | 128.5 | 73.8 | 79.3 | 67 | 2055 |
| 53.1 | 123.3 | 120.5 | 135.8 | 67.3 | 103.9 | 2400 |
| 67.1 | 143.9 | 108.7 | 104.6 | 129.6 | 112.7 | 2440 |
| 129.8 | 85.3 | 142.1 | 106.3 | 111.5 | 86.6 | 2342.9 |
| 74.7 | 131.5 | 56.4 | 55.2 | 91.1 | 51.6 | 1522.5 |
| 117 | 60.8 | 125.2 | 123.5 | 104.8 | 51.6 | 1871.9 |
| 106.6 | 102.3 | 122.2 | 122 | 100.8 | 78 | 2171.3 |
| 73.5 | 129.8 | 95 | 104.1 | 79.5 | 146.4 | 2474.6 |
| 117.3 | 101.7 | 131.4 | 99.3 | 120.4 | 68.6 | 2196.3 |
| 51.7 | 59.1 | 136 | 110.4 | 51.1 | 105.6 | 2301 |
| 54.4 | 61.1 | 53 | 135 | 94.4 | 124.1 | 1662.3 |
| 132.2 | 129.2 | 113.4 | 98.3 | 129.2 | 75.4 | 2189.5 |
| 96.7 | 89.7 | 68.3 | 99.6 | 63.5 | 131.4 | 1966.6 |
| 107.8 | 81.5 | 102.9 | 99.5 | 82.5 | 91.7 | 1998 |
| 148 | 126.1 | 83.1 | 124.8 | 132.1 | 51.1 | 1740.7 |
| 86.5 | 130.1 | 52.7 | 104.4 | 117.1 | 95 | 1755.5 |
| 56.5 | 81.3 | 64 | 68.1 | 100.8 | 104.8 | 1728.8 |
| 91.6 | 115.8 | 133.4 | 95.8 | 50.6 | 61.3 | 2224.6 |
| 53.1 | 80.5 | 56.8 | 115.2 | 75.3 | 88.4 | 1542.2 |
| 84 | 78.4 | 82 | 115.3 | 65.6 | 122.4 | 1984.9 |
| 107.2 | 97.8 | 62.5 | 104.8 | 108.4 | 114.9 | 1830.5 |
| 61.4 | 146.8 | 91 | 136.4 | 90.3 | 129.1 | 2387.2 |
| 142.1 | 118 | 107.5 | 86.5 | 117.4 | 67.2 | 2031.4 |
| 91.4 | 89.8 | 103.5 | 102.9 | 118.8 | 147.3 | 2392 |
| 104 | 138.4 | 85.2 | 115 | 67.4 | 138.1 | 2359.4 |
| 137.6 | 138.1 | 115.8 | 102.3 | 72.7 | 97.5 | 2387.9 |
| 146.1 | 87.1 | 113.5 | 111.3 | 78.5 | 69 | 1981.3 |
| 99.1 | 149.9 | 92.5 | 100.8 | 118.5 | 58.4 | 1969.8 |
| 122.5 | 110 | 114 | 69.2 | 107.9 | 129.2 | 2454.5 |
| 87.4 | 112.7 | 115.5 | 65 | 127.9 | 62.9 | 2055.9 |
| 130.5 | 143.8 | 93.3 | 121.9 | 101.3 | 69 | 2029.1 |
| 74.3 | 65.2 | 84.9 | 106.2 | 117.4 | 81.5 | 1711 |
| 84.1 | 95.1 | 101.8 | 127.5 | 145.9 | 83 | 1985.5 |
| 101.1 | 136.5 | 66.6 | 144.4 | 129 | 140.1 | 2199.6 |
| 52 | 85.2 | 82.8 | 83 | 85.6 | 60.7 | 1634.3 |
| 86.4 | 128.6 | 140 | 112.1 | 70.9 | 72.1 | 2411.6 |
| 54 | 123.9 | 57.8 | 122.8 | 91.9 | 106.1 | 1847.3 |
| 104.1 | 138.6 | 75.7 | 52 | 73 | 52.7 | 1747.9 |
| 136.7 | 127.9 | 118.6 | 76.3 | 67.6 | 121 | 2517.3 |
| 57.4 | 113 | 94.8 | 71.8 | 147.3 | 91.6 | 2052.6 |
| 107.3 | 100.5 | 110 | 136.7 | 120.1 | 113.9 | 2286.1 |
| 130.3 | 60.9 | 92.2 | 60.2 | 67.3 | 120.3 | 1992.5 |
| 68.1 | 55.7 | 96.2 | 90.8 | 79.8 | 78.9 | 1762 |
| 76 | 146.7 | 100.4 | 50.4 | 142.4 | 137.9 | 2529.8 |
| 104.6 | 54.1 | 81.2 | 58.9 | 50.3 | 139.6 | 1992.9 |
| 134.6 | 74.7 | 77 | 84.3 | 76.3 | 83.2 | 1675.4 |
| 113.7 | 50.5 | 55 | 119.9 | 87 | 84.9 | 1385.9 |
| 129.9 | 77.4 | 59.7 | 133.3 | 56.5 | 65 | 1413.3 |
| 89.1 | 128.7 | 55.4 | 124.8 | 101.9 | 102.5 | 1829 |
| 120 | 72 | 91.3 | 57.1 | 85.8 | 131.5 | 2106.6 |
| 50.7 | 127.7 | 56 | 61.3 | 112.4 | 135.6 | 2039.9 |
| 120 | 136.6 | 76.7 | 81.3 | 116.3 | 90.3 | 1977.2 |
| 135.9 | 115.1 | 106.7 | 142.5 | 134.2 | 106.3 | 2264.8 |
| 111.8 | 119.3 | 105.1 | 97.6 | 132.3 | 130.6 | 2425.2 |
| 132.1 | 142.2 | 104.8 | 63.5 | 94.1 | 117.2 | 2431.6 |
| 94.9 | 98.3 | 66.2 | 101.1 | 118.7 | 146 | 2073.3 |
| 93.7 | 103.3 | 97.9 | 72.7 | 110.3 | 63.5 | 1859.3 |
| 106.8 | 93.5 | 95.7 | 65.1 | 98.2 | 102.3 | 2040.3 |
| 50.4 | 96.1 | 71.8 | 94.6 | 126.9 | 86 | 1738.4 |
| 99.5 | 64.2 | 102.5 | 137.2 | 96 | 69.4 | 1794.5 |
| 116.7 | 79.6 | 131 | 87.3 | 71.9 | 113.1 | 2377.2 |
| 87.9 | 81 | 91.2 | 109.8 | 60.8 | 66.4 | 1726.7 |
| 111.1 | 72.2 | 107.3 | 102.6 | 90.4 | 134.4 | 2265.7 |
| 148.3 | 70.7 | 114.1 | 94.2 | 148.3 | 65.7 | 1903.6 |
| 71.1 | 54.7 | 126.7 | 145.3 | 115.1 | 72.2 | 1980.7 |
| 140.7 | 126.5 | 140.5 | 79.9 | 95.5 | 99.6 | 2578.9 |
| 105.9 | 131.3 | 90 | 90.4 | 91.4 | 140.8 | 2391.9 |
| 83.5 | 57.8 | 126.8 | 149 | 73.3 | 73.8 | 2006.3 |
| 114.6 | 89.9 | 82.6 | 61.1 | 108.8 | 127.1 | 2068.6 |
| 108.9 | 74.1 | 135.7 | 112.8 | 103.2 | 123.4 | 2475.7 |
| 112 | 87.9 | 143.7 | 114.8 | 53.4 | 103.2 | 2469.5 |
| 122.9 | 95.5 | 57.2 | 130.1 | 107.8 | 115.5 | 1781.8 |
| 145.5 | 80.3 | 53.2 | 92.2 | 139.4 | 116.2 | 1690.2 |
| 80.4 | 86.2 | 128.4 | 95 | 108.2 | 88.1 | 2245 |
| 143.5 | 126.6 | 83.5 | 90.4 | 95.7 | 93.5 | 2024.6 |
| 146.6 | 57.7 | 74.6 | 69.1 | 136.1 | 143.6 | 1971 |
| 97.1 | 133.9 | 77.5 | 108.3 | 88.3 | 61.6 | 1790.6 |
| 70.7 | 85.9 | 81.8 | 138.5 | 128.7 | 101.7 | 1896.2 |
| 61.4 | 133.3 | 75.2 | 126.4 | 142.1 | 65 | 1792.2 |
| 61.7 | 140.1 | 123.2 | 69.6 | 77.4 | 108.8 | 2523.8 |
| 126.6 | 60.3 | 121 | 116.8 | 115 | 62.6 | 1893.3 |
| 126.7 | 85.9 | 123.1 | 69.1 | 65 | 87 | 2171.5 |
| 95 | 122.6 | 56.8 | 138.4 | 60 | 91.9 | 1742.4 |
| 55.2 | 137.1 | 55.8 | 97.5 | 125.8 | 121.1 | 1978.2 |
| 75.1 | 98.3 | 116.4 | 100.2 | 117 | 142.6 | 2506.7 |
| 128.7 | 146.8 | 90.1 | 63.7 | 103 | 110.4 | 2262.6 |
| 57 | 139.3 | 114.2 | 120.5 | 97.6 | 75.1 | 2243.3 |
| 93.1 | 56.5 | 145.4 | 58.2 | 108.8 | 114 | 2431.4 |
| 84.3 | 69.8 | 70.7 | 104.4 | 112.5 | 143.7 | 1983.6 |
| 96.4 | 66.5 | 136.6 | 138.6 | 58.3 | 121 | 2438.2 |
| 144.9 | 68.6 | 107.5 | 138.8 | 67.3 | 93.2 | 1994.9 |
| 81.5 | 129.8 | 147.9 | 145.9 | 74.6 | 136.8 | 2891.3 |
| 62.5 | 114.5 | 88 | 123.5 | 118 | 146.9 | 2349.4 |
| 103.1 | 116.6 | 116.9 | 83.5 | 125.7 | 131 | 2518.4 |
| 64.4 | 62.7 | 65.4 | 122.6 | 60.9 | 101.3 | 1649.2 |
| 69.1 | 145.1 | 86.2 | 61.6 | 110.3 | 54.9 | 1868.2 |
| 71.4 | 95.2 | 115.2 | 97.5 | 128.3 | 57.7 | 1963.5 |
| 63.9 | 122.2 | 131.5 | 69.8 | 69.9 | 86.6 | 2396.5 |
| 91.1 | 117.3 | 84.9 | 127.8 | 103.7 | 60.7 | 1785.5 |
| 115.3 | 129.1 | 71.5 | 74.2 | 86.6 | 58.5 | 1691.7 |
| 110.7 | 98.8 | 119.4 | 97.5 | 143.4 | 66.6 | 2062.9 |
| 76 | 126.9 | 112.9 | 89 | 54.5 | 65.3 | 2109.2 |
| 129.8 | 70.6 | 129.8 | 74.5 | 114.4 | 92.3 | 2209.2 |
| 111.4 | 69.8 | 115.6 | 81.4 | 98.5 | 74.4 | 1956.9 |
| 146.5 | 113.9 | 57.6 | 108.9 | 147 | 64 | 1536.8 |
| 87 | 127.5 | 95.6 | 131.4 | 84.8 | 76.9 | 2031.4 |
| 114.7 | 61 | 131.9 | 103.7 | 133.8 | 122.7 | 2378.5 |
| 133.3 | 135.8 | 50.2 | 57.5 | 51.6 | 82.2 | 1674.4 |
| 109.1 | 129.6 | 137.8 | 71.8 | 135.4 | 125.9 | 2736.3 |
| 141.2 | 124.3 | 95.5 | 77 | 136.1 | 148.9 | 2457 |
| 52.2 | 53.2 | 119.3 | 106.2 | 78.7 | 56.6 | 1816.4 |
| 97.4 | 114.1 | 120.3 | 61.3 | 61.9 | 56.8 | 2072.2 |
| 63.9 | 145 | 133.9 | 145.9 | 50.1 | 148.8 | 2920.5 |
| 86 | 66.1 | 64.4 | 97.8 | 104.8 | 111.2 | 1707.7 |
| 66.5 | 113.1 | 145.5 | 84.7 | 67.1 | 130.2 | 2765.7 |
| 112.1 | 105 | 103 | 97.7 | 100.3 | 76.4 | 1993.2 |
| 76.4 | 65.5 | 127.7 | 86.1 | 148.7 | 63.7 | 1992.4 |
| 142.8 | 105.5 | 125.7 | 91.2 | 131.3 | 145.4 | 2642.5 |
| 51.5 | 147.9 | 112.6 | 149.2 | 87.7 | 70.8 | 2222.1 |
| 71.3 | 82.3 | 63.3 | 127.4 | 117.6 | 94 | 1655.8 |
| 128.3 | 130.4 | 131 | 67 | 116.8 | 65 | 2288.3 |
| 139.9 | 112 | 60.9 | 86.9 | 51.8 | 80.2 | 1671 |
| 108 | 149.2 | 91.7 | 124 | 105 | 124.7 | 2386.9 |
| 105.5 | 143.9 | 76.1 | 108.1 | 125.4 | 50.2 | 1752.7 |
| 134.2 | 87.4 | 69.7 | 97.8 | 100.6 | 121.6 | 1903 |
| 137.3 | 141.4 | 73.2 | 142.1 | 72.3 | 143.2 | 2297.8 |
| 128.6 | 129.9 | 90.8 | 129.1 | 86.8 | 124.6 | 2297.4 |
| 62.2 | 127.6 | 70.8 | 114.8 | 147.9 | 56.8 | 1673 |
| 148 | 57.7 | 146.5 | 139 | 70.3 | 72 | 2182.9 |
| 78.2 | 136.1 | 125.3 | 137.1 | 141.8 | 149.3 | 2787.4 |
| 140.3 | 98.4 | 106.9 | 129 | 101.9 | 124.9 | 2320.7 |
| 95.8 | 80.6 | 142.5 | 106.6 | 122.1 | 115.3 | 2507.1 |
| 129.2 | 129 | 100.6 | 121.5 | 81.4 | 113.3 | 2309.4 |
| 129.1 | 80.4 | 86.2 | 128.4 | 123.4 | 95.6 | 1858.9 |
| 60.4 | 51.6 | 67.6 | 112 | 95.2 | 66.1 | 1395.4 |
| 75.4 | 119.1 | 91.6 | 69.9 | 71.3 | 53 | 1810.5 |
| 73.4 | 55.3 | 56.4 | 116.9 | 145 | 91.5 | 1462.5 |
| 54.6 | 113.3 | 124.4 | 77.6 | 77.8 | 144.5 | 2644.7 |
| 96.4 | 72.8 | 136.1 | 111.8 | 122.4 | 54.5 | 2035.7 |
| 93.7 | 82 | 61.8 | 143.2 | 134.7 | 99.4 | 1677.5 |
| 103.1 | 142.2 | 72.4 | 92.3 | 143.3 | 69.2 | 1835.3 |
| 120.2 | 140.8 | 62.3 | 66 | 147.1 | 144.1 | 2192.8 |
| 72.6 | 117.6 | 82.6 | 118 | 149.7 | 106.6 | 2054.9 |
| 123.5 | 113.5 | 54 | 69.4 | 123.7 | 143.5 | 1991.2 |
| 95.5 | 123 | 73.5 | 129.7 | 63.2 | 105.1 | 1987 |

**Question Number – 3:**

Using a linear model, what is upper 89% confidence limit(one-sided) for the predicted value of y when x = 68.2?

**Answer:** 254.5374593

**Reference: Template.xlsx/Regression/Copy the data to A10, put 68.2 to J12, 89% to H18 and take answer from H44 (Clear all the pre-existing data at first)**

|  |  |
| --- | --- |
| X | Y |
| 74.7 | 290.589 |
| 80.8 | 278.446 |
| 78 | 294.16 |
| 87.3 | 339.451 |
| 50.2 | 156.424 |
| 50.4 | 203.248 |
| 56.5 | 200.255 |
| 60.5 | 202.135 |
| 96.6 | 370.892 |
| 65.7 | 213.309 |
| 66.4 | 261.968 |
| 82.1 | 301.277 |
| 56.2 | 214.794 |
| 53.3 | 212.071 |
| 58.1 | 186.047 |
| 72.3 | 239.401 |

**Question Number – 4:**

Using a linear model, what is the estimated coefficient for factor B?

**Answer:** 5.394186271

**Reference: Template.xlsx/Regression/Go to cell Y9 and read instructions and do accordingly. Take the coefficient of Factor B from Z37. You can work with any confidence interval, it is immaterial.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Factor A | Factor B | Factor C | Factor D | Factor E | Factor F | Factor G | Result |
| 117.7 | 104.9 | 83.2 | 124.4 | 81.8 | 149.3 | 130.4 | 4823.6 |
| 53.6 | 76.3 | 83.9 | 111.7 | 74.4 | 142.2 | 94.2 | 3745.1 |
| 112.5 | 82.1 | 103.2 | 65.1 | 141.8 | 143.3 | 71.3 | 4175.8 |
| 121.7 | 145.8 | 67.8 | 67 | 94 | 112.7 | 51 | 4020.8 |
| 50.6 | 128.3 | 118.1 | 143.8 | 82.6 | 57.9 | 108.4 | 4118.9 |
| 120.6 | 131.4 | 75.6 | 87 | 118.9 | 126.7 | 80.8 | 4478.7 |
| 144.5 | 122.1 | 130.8 | 143.3 | 117.1 | 72.8 | 84.8 | 5053.6 |
| 85.4 | 110.2 | 58.2 | 99.7 | 79.2 | 57.2 | 77.3 | 3585.4 |
| 113.7 | 131.3 | 57.7 | 100.9 | 62.1 | 70.4 | 136.4 | 4227.9 |
| 88.1 | 125 | 87.9 | 50.1 | 95.7 | 113.6 | 146.3 | 4026.1 |
| 123.7 | 109.4 | 60.2 | 92 | 112.7 | 142.4 | 85.7 | 4446.9 |
| 133.1 | 138.8 | 92.3 | 107.5 | 148 | 87.9 | 71.2 | 4768.4 |
| 148.8 | 112.3 | 52.7 | 144.2 | 100.8 | 103.4 | 121.1 | 5054.3 |
| 55.2 | 114.5 | 60.5 | 51.8 | 98.2 | 138.2 | 96.3 | 3481.1 |
| 72.1 | 68.8 | 102.8 | 131.1 | 62.7 | 91.6 | 83.1 | 3752.7 |
| 147.8 | 127.5 | 145.2 | 138.5 | 76.3 | 90.9 | 145 | 5295 |
| 64.1 | 58.8 | 65 | 81.3 | 88 | 87.8 | 110.4 | 3332.3 |
| 99.4 | 114.8 | 57.2 | 141 | 126.5 | 139.1 | 81.3 | 4702.5 |
| 61.4 | 103.2 | 143 | 114.1 | 121.9 | 65.7 | 88.8 | 4021 |
| 83.3 | 91.5 | 148.7 | 145.2 | 61.8 | 66.3 | 123.9 | 4320.2 |
| 113.7 | 149.9 | 131.7 | 143.1 | 115.1 | 134.6 | 63.7 | 5100.2 |
| 63.8 | 103.5 | 132.3 | 55 | 103 | 128.8 | 145 | 3972 |
| 86.6 | 58.1 | 96.3 | 64.9 | 117 | 149.9 | 87.2 | 3777.1 |
| 92.4 | 147.7 | 59.7 | 127.8 | 59.2 | 127.6 | 134.9 | 4616.2 |
| 97.2 | 75.6 | 132.5 | 74.7 | 103.5 | 133.3 | 85.6 | 4000.8 |
| 92.4 | 101.7 | 101.9 | 83.8 | 89.3 | 91.5 | 127.5 | 4045.3 |
| 77.8 | 94.6 | 110.3 | 66.5 | 94.9 | 136.2 | 97 | 3834.2 |
| 148.6 | 52.8 | 137.6 | 103.8 | 65.1 | 134.8 | 103.9 | 4508.7 |
| 109 | 54.9 | 132.8 | 137 | 110.4 | 117.7 | 125 | 4697.8 |
| 72.8 | 113.1 | 127.2 | 97.2 | 130 | 86 | 64.4 | 3991.8 |
| 100.3 | 68.8 | 145.2 | 77.4 | 115.2 | 144.7 | 105.2 | 4262.9 |
| 124.1 | 129.2 | 88.5 | 67.9 | 123.5 | 115.2 | 87.7 | 4366.7 |
| 105.9 | 119.4 | 135.2 | 118.8 | 50.3 | 100.2 | 147.7 | 4607.5 |
| 50.2 | 100.2 | 80.9 | 64.4 | 118.6 | 91.2 | 61.2 | 3242.9 |
| 144.3 | 139.6 | 115.5 | 140 | 60.2 | 79 | 84.3 | 4815.1 |
| 57.4 | 87.7 | 93.3 | 138.4 | 126 | 75.6 | 74.3 | 3949.6 |
| 138.8 | 87.6 | 111 | 52.7 | 127.6 | 138.3 | 73.4 | 4258.7 |
| 62.6 | 130.7 | 95.2 | 72.8 | 59.2 | 85.9 | 107.1 | 3559.1 |
| 143.8 | 123.8 | 60.4 | 124.3 | 52.1 | 67.7 | 57.6 | 4198.1 |
| 144.1 | 80.8 | 76.9 | 104.2 | 87.3 | 95.1 | 70.2 | 4207.7 |
| 53.5 | 91.6 | 53.7 | 77 | 108.7 | 119.9 | 63 | 3347.7 |
| 95.6 | 133 | 132.8 | 71 | 112.3 | 139.9 | 69.2 | 4266.5 |
| 136.6 | 67.8 | 138.7 | 64.8 | 78.4 | 58.6 | 65.7 | 3687.4 |
| 131.1 | 55.1 | 128.6 | 87.2 | 58.8 | 70 | 67.7 | 3700.2 |
| 93.3 | 94.5 | 122.6 | 138 | 112.1 | 100.1 | 53.2 | 4330 |
| 143.1 | 115.8 | 108.1 | 105.2 | 116.9 | 108.3 | 142.9 | 5074.6 |
| 62 | 135 | 131.6 | 101.4 | 60.1 | 118.4 | 54 | 3802.8 |
| 139.3 | 117.1 | 95 | 110.9 | 146 | 51.6 | 106.8 | 4763.2 |
| 86.2 | 63.3 | 67.3 | 119.6 | 139.6 | 98 | 145.5 | 4369.6 |
| 94.3 | 140 | 68.6 | 99.8 | 96.6 | 52.6 | 86.6 | 3970.4 |
| 134.4 | 81.1 | 95.2 | 128.9 | 51.4 | 105.5 | 103.1 | 4440.9 |
| 147.7 | 128.6 | 148.8 | 125 | 72.9 | 105.3 | 53.5 | 4780.6 |
| 97.8 | 75 | 142.3 | 147.7 | 102 | 146.4 | 131.9 | 4958 |
| 73.5 | 90.1 | 137.5 | 99.4 | 52.9 | 112.8 | 140 | 4052.9 |
| 100.9 | 61.4 | 54.3 | 67.5 | 67.7 | 132 | 90.8 | 3521.9 |
| 104.8 | 67.3 | 58.7 | 85.7 | 63.1 | 83.2 | 90 | 3511.4 |
| 140.6 | 97.9 | 144.3 | 63.5 | 124.2 | 134.3 | 77.4 | 4502.8 |
| 143.7 | 73.4 | 86.5 | 139.1 | 133 | 64.4 | 103 | 4761.4 |
| 120 | 97.1 | 115.4 | 121 | 58.9 | 74.6 | 118.8 | 4356.2 |
| 70 | 107 | 112.5 | 118.4 | 136.6 | 97.6 | 55.1 | 4104.7 |
| 148 | 140.8 | 147.6 | 101.8 | 142 | 136.2 | 59.6 | 5138.6 |
| 95.2 | 58.6 | 114.1 | 100.9 | 132 | 145.5 | 82.3 | 4249.4 |
| 88.3 | 115.3 | 97 | 125.8 | 51.2 | 107.7 | 126.4 | 4322.3 |
| 127.8 | 138.1 | 103.9 | 52.2 | 60.5 | 105.1 | 106.8 | 4107.4 |
| 129.4 | 107.3 | 136.3 | 62 | 57.9 | 118.6 | 123.1 | 4267.7 |
| 86.8 | 147.5 | 116.9 | 83.7 | 146.4 | 142.2 | 99 | 4656.3 |
| 58.4 | 89.9 | 53.3 | 135.6 | 70.1 | 128.6 | 97.4 | 3914.8 |
| 58.8 | 104 | 119.8 | 138.3 | 94.5 | 73.7 | 112.6 | 4173 |
| 94.9 | 82.5 | 144 | 67.1 | 94.2 | 108.2 | 62 | 3723.8 |
| 107.2 | 94.2 | 143.1 | 77.9 | 80.7 | 60 | 81.9 | 3799.1 |
| 95.6 | 124.4 | 122 | 137.9 | 117.7 | 112 | 97.1 | 4799.1 |
| 127.7 | 131.6 | 67.5 | 108.4 | 85.9 | 87.6 | 79.2 | 4356.6 |
| 110.6 | 129.9 | 97.3 | 83.5 | 82.6 | 126 | 67.3 | 4164.2 |
| 74.2 | 124.1 | 121.5 | 72.8 | 50.5 | 123.1 | 101.7 | 3792.6 |
| 149 | 76.7 | 88 | 115.9 | 65.1 | 57.7 | 51 | 4006.8 |
| 115 | 81.9 | 68.3 | 69.5 | 134.6 | 98.6 | 82 | 3937.3 |
| 69.8 | 137.2 | 97.7 | 122 | 137.4 | 89.4 | 72.2 | 4308.6 |
| 54 | 123.2 | 77.2 | 123.8 | 136.1 | 100.9 | 98.7 | 4234.7 |
| 73.1 | 136.6 | 103 | 125.8 | 122.1 | 139.4 | 76.3 | 4553.8 |
| 89.1 | 118.4 | 118.7 | 64.2 | 53.6 | 69.2 | 123.2 | 3694.1 |
| 105.5 | 118.3 | 115.9 | 57.2 | 143.4 | 107.7 | 104.4 | 4286 |
| 111.2 | 76.3 | 115 | 129.6 | 63.1 | 118.1 | 98.1 | 4351.7 |
| 62.7 | 122.9 | 83 | 70.9 | 79.7 | 107.5 | 141.3 | 3844 |
| 81 | 117.5 | 50.6 | 76.9 | 68 | 58.9 | 116.3 | 3509.1 |
| 138.4 | 131 | 137.1 | 109.8 | 120.3 | 93.8 | 87.2 | 4898.9 |
| 95 | 84.2 | 88.4 | 69.2 | 109.1 | 136.6 | 107.4 | 4010.4 |
| 145.4 | 65 | 73.7 | 87.7 | 149.3 | 96.1 | 103.8 | 4468.5 |
| 70.5 | 115.2 | 147.7 | 124.7 | 70.6 | 141.3 | 59 | 4206 |
| 105.3 | 102.2 | 84.2 | 147.8 | 106.8 | 101.2 | 112.8 | 4728.9 |
| 145.1 | 82.4 | 79.5 | 72.6 | 123 | 138.3 | 141.1 | 4694.5 |
| 104.7 | 63.5 | 87.4 | 134.3 | 107.3 | 88.1 | 78.1 | 4167.2 |
| 142.7 | 68.9 | 113.1 | 124 | 62.6 | 142.5 | 90.9 | 4617 |
| 92.8 | 54.5 | 72.5 | 90.5 | 110.1 | 126.6 | 107 | 3932.7 |
| 85.4 | 84.7 | 118.9 | 93.9 | 124.9 | 140.6 | 136.3 | 4469.3 |
| 98.8 | 107.6 | 104.9 | 122.7 | 113 | 80.5 | 63.3 | 4221 |
| 132 | 88.8 | 121.4 | 62.8 | 107.9 | 76.7 | 63.4 | 3907.1 |
| 70.7 | 130.7 | 135.8 | 110.2 | 77.3 | 118.2 | 121.7 | 4378 |
| 142.2 | 108.6 | 96.1 | 116.7 | 124.2 | 115.1 | 61.9 | 4737.7 |
| 71.5 | 123.3 | 74 | 149.1 | 72.1 | 134.8 | 134.4 | 4611.7 |
| 98.2 | 78.7 | 132.7 | 136.6 | 146.8 | 141.4 | 118.4 | 4987.5 |
| 135.8 | 101.8 | 118 | 51.3 | 78.6 | 96.1 | 54.4 | 3787.7 |
| 63.9 | 105.5 | 133.6 | 119.3 | 92.4 | 107.2 | 54.9 | 3934.7 |
| 71.1 | 133.7 | 140.2 | 131.9 | 146.4 | 75.7 | 108.8 | 4664.5 |
| 101.9 | 88.6 | 131.5 | 58.1 | 77.1 | 86.9 | 89.1 | 3651.2 |
| 116.8 | 129.6 | 80.3 | 79.3 | 74 | 86 | 110.9 | 4131.5 |
| 61.1 | 50.2 | 107.8 | 80.6 | 129.6 | 90.3 | 60.9 | 3344.9 |
| 65.5 | 101.2 | 77.7 | 132.1 | 71.7 | 146.4 | 104.1 | 4197.5 |
| 94.2 | 119.7 | 116.1 | 57.6 | 121.2 | 143.7 | 121.6 | 4330.9 |
| 94.2 | 88.8 | 82.8 | 146 | 134.4 | 119 | 131.9 | 4849.5 |
| 95.7 | 79.9 | 132.3 | 110.7 | 131.9 | 146.8 | 131.4 | 4763 |
| 88.5 | 52.1 | 100.1 | 66.9 | 116.9 | 57.8 | 99.1 | 3429 |
| 55 | 97.3 | 92.2 | 97.9 | 118.4 | 70.3 | 68 | 3537.6 |
| 54.1 | 145.8 | 128.9 | 61.5 | 117.5 | 112.4 | 113.5 | 3993.7 |
| 133 | 146.7 | 87.8 | 100.4 | 139.1 | 105 | 59.5 | 4705.6 |
| 139.2 | 93.3 | 104.6 | 114.7 | 134.2 | 55.1 | 139.9 | 4810.2 |
| 147.8 | 107.9 | 66.2 | 110.7 | 81.2 | 134.7 | 70.8 | 4570 |
| 132.8 | 83.4 | 141.6 | 110.3 | 115.4 | 149 | 138.4 | 5083.3 |
| 137.1 | 149.4 | 82.8 | 135 | 84.4 | 108.9 | 133.6 | 5170.9 |
| 52.8 | 105.2 | 115.9 | 73.3 | 67.4 | 144.6 | 120.8 | 3763 |
| 54.3 | 146.9 | 116.1 | 125.2 | 93 | 105.2 | 57.8 | 4083.5 |
| 114.9 | 51 | 71.7 | 61.2 | 110.2 | 123.4 | 66.5 | 3628.3 |
| 95.5 | 71.8 | 81.3 | 86.8 | 131.9 | 82.9 | 136 | 4092.4 |
| 61.3 | 142.4 | 113.4 | 131.7 | 72.3 | 139.4 | 94 | 4420.5 |
| 117.4 | 132.9 | 129.2 | 102 | 60.3 | 136.8 | 134.6 | 4771.7 |
| 125.2 | 54.3 | 121.6 | 98.7 | 60.6 | 123 | 145.9 | 4370.3 |
| 113.7 | 141.4 | 102.9 | 52.4 | 65.4 | 147.6 | 136.9 | 4365.7 |
| 73.9 | 61.1 | 78.6 | 101.1 | 133.1 | 138.2 | 96 | 4009.1 |
| 60.4 | 130 | 68 | 106.9 | 145.2 | 67.1 | 118.6 | 4142.1 |
| 61.9 | 125.5 | 86.3 | 123.9 | 105.9 | 103.9 | 98.5 | 4203.7 |
| 126.1 | 107.5 | 55.2 | 119.2 | 91.4 | 113.7 | 51.4 | 4266.3 |
| 83.2 | 105 | 131.1 | 95.1 | 143.9 | 80.7 | 63.9 | 4069.9 |
| 120.5 | 134.4 | 98.5 | 67.7 | 67.7 | 126.1 | 91 | 4187.6 |
| 61.7 | 69.2 | 118.3 | 59.7 | 110 | 124.7 | 76.4 | 3432.1 |
| 63.8 | 135.6 | 122.8 | 143.1 | 64.1 | 141.8 | 71.9 | 4371.6 |
| 55 | 95.5 | 55.1 | 91.9 | 95.5 | 59.9 | 98.7 | 3365.5 |
| 103.1 | 61.9 | 58.8 | 116.1 | 91.3 | 93.2 | 72.9 | 3834.8 |
| 138.8 | 65 | 98.7 | 148.7 | 147.2 | 111.9 | 134.5 | 5233.1 |
| 144.5 | 82.1 | 113.6 | 111 | 114.8 | 61.5 | 71.2 | 4380.1 |
| 64.4 | 96 | 81.8 | 89.8 | 82.2 | 134 | 123.4 | 3908.8 |
| 105.4 | 129 | 108.3 | 123.7 | 97.8 | 107.9 | 128.7 | 4804.9 |
| 85.5 | 86.4 | 72 | 141.1 | 115.9 | 80.6 | 96.3 | 4233.9 |
| 65.8 | 115.4 | 64.2 | 137.7 | 59.9 | 75.3 | 107.2 | 3928.3 |
| 62 | 54.8 | 114.2 | 66 | 95.5 | 131.9 | 132 | 3645.1 |
| 53.4 | 113.8 | 61.4 | 118.7 | 91.8 | 88.2 | 149.4 | 4067.3 |
| 126.2 | 92.8 | 58.9 | 89.6 | 82.5 | 77.9 | 146.9 | 4236.6 |
| 119.6 | 117.6 | 93.8 | 75.2 | 82.1 | 54.2 | 123.5 | 4050.8 |
| 112.2 | 101.2 | 128.3 | 56.8 | 62.6 | 136.9 | 137.7 | 4187.8 |
| 77.7 | 126.1 | 83.4 | 136.6 | 120.8 | 107.3 | 60.2 | 4340.9 |
| 99.7 | 105 | 91.2 | 94.3 | 74.8 | 145.6 | 61.9 | 4044.9 |
| 96.2 | 139.2 | 66.8 | 122 | 119.1 | 124.7 | 122.6 | 4785.6 |
| 112.1 | 100.3 | 95.6 | 132.1 | 52.4 | 89.7 | 61 | 4101.4 |
| 145.3 | 56.5 | 62 | 52.8 | 58.6 | 126.3 | 131.2 | 3912.1 |
| 94.2 | 68.7 | 135.5 | 126 | 67.5 | 76.7 | 140.1 | 4246.5 |
| 75.2 | 72.3 | 67.3 | 68.4 | 145.9 | 62.2 | 62.4 | 3306.8 |
| 143.1 | 136.5 | 50.2 | 114.8 | 123.8 | 125.6 | 115 | 5063.7 |
| 86.2 | 64.2 | 74.9 | 108.4 | 147.6 | 78 | 58 | 3795 |
| 79.5 | 95.8 | 105.8 | 97.7 | 53.9 | 64.8 | 126.9 | 3736.8 |
| 102.1 | 114.7 | 60.4 | 98.5 | 123.1 | 117.8 | 95.9 | 4338.3 |
| 133.4 | 53.4 | 100.3 | 79.5 | 97.9 | 106.7 | 114.2 | 4153.3 |
| 79 | 59 | 87.6 | 52 | 136.5 | 119.4 | 140.7 | 3802.7 |
| 117.8 | 111.9 | 50.9 | 149.6 | 120.7 | 133.9 | 74 | 4823.3 |
| 139.6 | 64.2 | 107.3 | 148.2 | 71.3 | 110.4 | 73.2 | 4562.6 |
| 63.6 | 72 | 139.8 | 117.9 | 136.2 | 132.1 | 123.2 | 4427.8 |
| 61.6 | 61.6 | 84.2 | 148.4 | 134.1 | 121.8 | 126.7 | 4429.9 |
| 145.5 | 105.2 | 62.9 | 115.9 | 127.8 | 101.6 | 73.2 | 4663.2 |
| 137.8 | 113.6 | 52.8 | 51.9 | 130.6 | 113.2 | 124.2 | 4390 |
| 69.5 | 101.6 | 132.3 | 119.6 | 131.8 | 141.7 | 107.5 | 4583.4 |
| 142.9 | 103.1 | 96.6 | 50.6 | 144.5 | 136.8 | 63.9 | 4353.1 |
| 91.9 | 56.2 | 123.3 | 149.8 | 118.9 | 103 | 53.8 | 4258.4 |
| 71.3 | 108.4 | 142.6 | 125.6 | 131 | 68.6 | 55.1 | 4109.9 |
| 126.7 | 73.8 | 94.4 | 132.5 | 59.8 | 107.9 | 63.5 | 4205.2 |
| 99.8 | 125.4 | 76.2 | 135.5 | 127.9 | 126 | 141.4 | 5024.7 |
| 78 | 93.5 | 60.2 | 94 | 140.8 | 99.8 | 145.9 | 4231 |
| 61.9 | 119.8 | 66.4 | 113.4 | 144.4 | 57.2 | 120.3 | 4121.9 |
| 96.7 | 98.5 | 135.9 | 117.9 | 61.5 | 125.6 | 63 | 4149.9 |
| 80.1 | 62.3 | 128.1 | 54.4 | 137.4 | 88.9 | 51.7 | 3383.6 |
| 80.4 | 143 | 60.5 | 66 | 109.9 | 102.2 | 115 | 3986.7 |
| 122.3 | 57.5 | 67.8 | 96.4 | 140.8 | 79.8 | 138.2 | 4338.2 |
| 52.6 | 61.5 | 115.1 | 130.9 | 105.1 | 88.6 | 122.4 | 3964.4 |
| 58.9 | 77.3 | 146.2 | 148.2 | 53.8 | 134.2 | 137.6 | 4387.2 |
| 92.9 | 81.9 | 148.1 | 69.5 | 69.3 | 138 | 137.8 | 4115 |
| 99.1 | 84.1 | 149.6 | 139.3 | 59.6 | 148.5 | 138.1 | 4800.3 |
| 60.2 | 144.7 | 100.6 | 76.2 | 70 | 97.4 | 70.8 | 3561.4 |
| 66 | 86.5 | 146 | 141.7 | 132.2 | 83.5 | 106.3 | 4436.6 |
| 105.1 | 77.8 | 113.9 | 115.7 | 74.1 | 94.6 | 136.3 | 4329.4 |
| 111.7 | 134 | 77.9 | 63 | 105.9 | 55.3 | 120 | 4023.3 |
| 97.7 | 100.8 | 112.5 | 79.9 | 97.6 | 134.2 | 131.8 | 4338.2 |
| 94.7 | 147.4 | 123.4 | 70.7 | 110.4 | 99.9 | 115.7 | 4338 |
| 134.5 | 92.4 | 54.3 | 99.5 | 69.5 | 101.6 | 132.9 | 4345.3 |
| 135.7 | 75.3 | 120.1 | 128.6 | 113.8 | 71.2 | 64.2 | 4437.6 |
| 51 | 126.4 | 90.3 | 105 | 65.9 | 114 | 90.5 | 3757.5 |
| 63.7 | 81.8 | 69.1 | 137.8 | 133.3 | 93.2 | 147.2 | 4389.7 |
| 68.9 | 136.7 | 88.7 | 75.9 | 71.8 | 139.4 | 66.9 | 3743.9 |
| 145.4 | 106.9 | 82.7 | 63.4 | 115.7 | 66.1 | 62.7 | 3993.2 |
| 70.4 | 101.2 | 117.7 | 77 | 53.4 | 128.6 | 131.9 | 3853.9 |
| 55.9 | 73.8 | 100.7 | 74.1 | 125.7 | 120.6 | 132.9 | 3821.6 |
| 77.3 | 119.2 | 116.9 | 122 | 138.6 | 105.8 | 74 | 4416 |
| 105.3 | 147.4 | 69.7 | 100.4 | 106.2 | 97.4 | 116.1 | 4502.9 |
| 144 | 144.2 | 82.7 | 108.5 | 121.8 | 114.6 | 124.1 | 5135.6 |
| 108.8 | 53.4 | 85.4 | 98.3 | 131.8 | 108.7 | 70.5 | 4010.5 |
| 141.2 | 97.9 | 115.4 | 121 | 59.2 | 107 | 83.8 | 4532 |
| 141.1 | 100.7 | 62.6 | 145.2 | 60.7 | 59.9 | 103.8 | 4501 |
| 70.9 | 55.8 | 90.8 | 120.4 | 57.1 | 104.7 | 90.4 | 3612.7 |
| 145.8 | 141.6 | 59.3 | 86.6 | 52.9 | 140 | 126 | 4676.3 |
| 97.4 | 123.1 | 106.2 | 97.1 | 87.5 | 80.4 | 129.1 | 4290.7 |
| 67.6 | 139.2 | 73.9 | 123.3 | 50.7 | 73.1 | 66.3 | 3714.3 |
| 51.1 | 92.4 | 77.2 | 69.6 | 61.1 | 149.4 | 83.6 | 3350.3 |
| 74 | 125.1 | 105.6 | 143.6 | 95.6 | 50.6 | 142.5 | 4470.2 |
| 52.2 | 81.8 | 93.9 | 102.6 | 109.7 | 75.9 | 141.7 | 3824.1 |
| 93.6 | 123.3 | 141 | 112.2 | 105.9 | 103.9 | 71.1 | 4390.1 |
| 99 | 83.5 | 64.8 | 112.1 | 98.8 | 61.7 | 53.9 | 3676.1 |
| 86 | 58.4 | 146 | 59.1 | 117.1 | 66.4 | 122.5 | 3667 |
| 136.6 | 133.3 | 130.7 | 105.2 | 132.5 | 124.8 | 78.6 | 4993.2 |
| 149.4 | 97.5 | 143.5 | 68.5 | 116.9 | 61.8 | 104.9 | 4398.9 |
| 75.5 | 64.7 | 84.2 | 129.7 | 142.1 | 118.9 | 69.2 | 4130.3 |
| 56.9 | 65.3 | 52.4 | 143.4 | 94.5 | 123.1 | 61 | 3741.9 |
| 75.4 | 118.1 | 52.7 | 109.5 | 91.2 | 67.3 | 70.8 | 3674.6 |
| 53.5 | 109.4 | 148.1 | 50.1 | 55.4 | 94.7 | 90.2 | 3256.9 |
| 118 | 73.1 | 112.1 | 93.5 | 73.4 | 77.7 | 125.8 | 4080.8 |
| 80.6 | 130 | 68.1 | 67.6 | 57.2 | 141.9 | 50.3 | 3538.7 |
| 146.2 | 82.2 | 145.1 | 80.4 | 79.2 | 97.9 | 141.9 | 4566 |
| 137.7 | 148.2 | 92.2 | 131.5 | 64.2 | 139.9 | 56.1 | 4821.8 |
| 139.9 | 135.1 | 82.9 | 107 | 129.2 | 66.9 | 63.1 | 4557.1 |
| 115.4 | 75.9 | 123.7 | 144.4 | 98.3 | 81.2 | 91.4 | 4515.5 |
| 53.8 | 58.8 | 146.6 | 116.6 | 86.1 | 67.9 | 131.2 | 3782.9 |
| 134.5 | 131.5 | 114.5 | 74.5 | 134.2 | 124.7 | 79.1 | 4672.1 |
| 60.1 | 128.7 | 146.3 | 57.8 | 61.1 | 109.1 | 148.4 | 3870.3 |
| 127.2 | 110.5 | 62.8 | 112.8 | 76.4 | 99.4 | 94 | 4345.8 |
| 149.1 | 59.1 | 147.8 | 64 | 52.8 | 59.6 | 85.1 | 3736 |
| 136.7 | 97.6 | 134.2 | 73.9 | 114.9 | 59 | 147.2 | 4503.1 |
| 121.5 | 125.4 | 148.9 | 138 | 123.7 | 72.9 | 82.2 | 4897.2 |
| 93.5 | 52.6 | 66.9 | 63.6 | 54.8 | 142.1 | 59.2 | 3228.8 |
| 114.2 | 82.3 | 75.9 | 82.7 | 81.5 | 148.3 | 98 | 4117.9 |
| 129.9 | 91.5 | 69.1 | 139 | 86.1 | 65.7 | 91 | 4385.1 |
| 51.4 | 104.7 | 124.2 | 91.5 | 71.8 | 61.8 | 125.7 | 3610.9 |
| 134.5 | 56.8 | 93.6 | 144.4 | 139 | 114.6 | 69.9 | 4741.2 |
| 87.6 | 64.9 | 75.4 | 75.7 | 59.9 | 110.6 | 128.3 | 3607.8 |
| 119.3 | 139.2 | 109.9 | 75.4 | 82.8 | 130.2 | 89.2 | 4387.1 |
| 129.3 | 133 | 92.6 | 81.3 | 130.7 | 127.3 | 72.8 | 4573.8 |
| 52.6 | 87.5 | 114.3 | 117.1 | 52.4 | 96.4 | 118.3 | 3746.4 |
| 84.3 | 73.7 | 67.8 | 114 | 61.7 | 109.5 | 145.5 | 4030.8 |
| 74.6 | 110.3 | 54.9 | 51.6 | 110.8 | 55.8 | 100.6 | 3332.5 |
| 68 | 71.9 | 60.2 | 68.3 | 124.5 | 69.6 | 50.3 | 3106.9 |
| 137.8 | 148.2 | 120.1 | 118 | 125.2 | 90.8 | 148.2 | 5322.4 |
| 92.6 | 91.4 | 80.9 | 56.3 | 142.3 | 55.4 | 86.6 | 3596.9 |
| 61.7 | 50.5 | 66.7 | 67.7 | 83.3 | 58.9 | 104.3 | 2966 |
| 84.3 | 119.9 | 99.4 | 131.6 | 75.5 | 66.1 | 140.6 | 4374.8 |
| 132.9 | 131.6 | 135.4 | 136.1 | 81.6 | 118.6 | 115 | 5138.5 |
| 64.7 | 98.1 | 125.9 | 67.5 | 123.6 | 145.4 | 65.4 | 3808.5 |
| 91.3 | 80.2 | 140.6 | 67.3 | 126.4 | 98.2 | 144.7 | 4193.1 |
| 64.4 | 61.2 | 81.7 | 123.6 | 141.1 | 106.3 | 104.1 | 4070.5 |
| 113.4 | 118.7 | 85.3 | 55 | 53.4 | 106.2 | 73.6 | 3648.3 |
| 83.9 | 141.7 | 101.8 | 59.1 | 107.7 | 106.8 | 113.2 | 4067.7 |
| 108.3 | 143 | 74.4 | 96.4 | 125.6 | 105.4 | 121.4 | 4653 |
| 116.6 | 87.4 | 107 | 95.7 | 85 | 92 | 75.8 | 4018 |
| 115.8 | 51.2 | 111.5 | 143.4 | 128.7 | 53 | 69 | 4246.1 |
| 74.9 | 114.4 | 91.4 | 142.7 | 122.7 | 122.4 | 140.6 | 4816.6 |
| 115.6 | 109.5 | 84.3 | 123.3 | 88 | 81.8 | 114.9 | 4478.8 |
| 74.3 | 136.6 | 130.9 | 88.3 | 104.5 | 52.6 | 141.1 | 4165.7 |
| 140.2 | 86.6 | 75.9 | 69.1 | 71.8 | 117.3 | 131.7 | 4242.9 |
| 102 | 53.1 | 98.8 | 53.1 | 90 | 102.2 | 69.9 | 3347.7 |
| 82.2 | 91.6 | 99.7 | 82.2 | 68.3 | 146.8 | 56.3 | 3676.9 |
| 117.5 | 143 | 115.1 | 56.4 | 129.6 | 148.9 | 148 | 4846.2 |
| 114 | 99.2 | 61 | 53.1 | 62.2 | 89.9 | 100.5 | 3560.6 |
| 75.2 | 65.9 | 133.5 | 137.8 | 116.1 | 125.6 | 136 | 4590.8 |
| 131 | 87.1 | 63.1 | 141.5 | 131.3 | 95.9 | 70.5 | 4631.3 |
| 118.1 | 100.9 | 54.5 | 80 | 79.7 | 62.3 | 129.3 | 3924.2 |
| 74.4 | 66.9 | 129.9 | 106.1 | 68.2 | 102.1 | 53.9 | 3544.1 |
| 142.5 | 71.4 | 67.8 | 119.1 | 102.8 | 146.9 | 122.7 | 4825.7 |
| 59.6 | 52.2 | 125.2 | 73 | 51.9 | 127 | 50.3 | 3045.4 |
| 62.9 | 89.1 | 128.3 | 50.6 | 118 | 105.3 | 106.5 | 3607.5 |
| 70.4 | 86.2 | 92.9 | 117.8 | 144 | 73.2 | 96.9 | 4069.1 |
| 94.8 | 77.2 | 50.8 | 125.1 | 89.2 | 69 | 87.1 | 3841 |
| 128.5 | 88.7 | 132.5 | 132.1 | 108.4 | 141.9 | 54.8 | 4749.6 |
| 78 | 70 | 82.5 | 136.5 | 125.1 | 136.3 | 136.4 | 4578.3 |
| 73.8 | 80.1 | 81.9 | 102.7 | 147.2 | 75.4 | 149.3 | 4194.8 |
| 65.4 | 80.9 | 113.7 | 106.7 | 126.9 | 72.9 | 122.5 | 4010.4 |
| 120 | 53.8 | 82.4 | 105.4 | 90.6 | 57.3 | 69.3 | 3711.6 |
| 137.8 | 78.1 | 116.9 | 74 | 73.4 | 66.9 | 88.2 | 3897.7 |
| 147.4 | 117.2 | 71 | 92.1 | 133.1 | 113.8 | 63.2 | 4590.6 |
| 125 | 66.4 | 116.7 | 73.6 | 92.1 | 109.1 | 92.2 | 4018.1 |
| 69.3 | 68.7 | 140.7 | 102.7 | 74.6 | 55 | 88.7 | 3517.7 |
| 61.1 | 146.7 | 89.5 | 102.9 | 148.4 | 67.6 | 84.8 | 4121.6 |
| 79.1 | 140 | 61.7 | 60.9 | 144.8 | 83 | 111.1 | 3976.9 |
| 78.9 | 73.3 | 131.4 | 111.8 | 115.9 | 105.4 | 135.6 | 4346.6 |
| 147.2 | 74.8 | 73.8 | 111.7 | 115.7 | 118.8 | 117.8 | 4761.6 |
| 131 | 128.6 | 81.5 | 89.2 | 141 | 68.1 | 60.4 | 4316.1 |
| 118.2 | 91.1 | 68 | 82.7 | 101.2 | 134.4 | 54.4 | 3983.4 |
| 81.1 | 121.8 | 50.9 | 146.9 | 81 | 136.1 | 136.8 | 4667 |
| 111 | 65.8 | 146.8 | 143.3 | 82.1 | 122.7 | 101.3 | 4630.7 |
| 108.6 | 51.5 | 144.7 | 120.6 | 141.3 | 56.7 | 87.2 | 4266.3 |
| 120.2 | 102.7 | 106.6 | 127.8 | 53.4 | 99 | 145.2 | 4648 |
| 58 | 109.4 | 142 | 140.6 | 99.2 | 68.6 | 50.4 | 3945.5 |
| 66.8 | 110.1 | 64.4 | 83 | 135.2 | 75.2 | 85 | 3689.8 |
| 89.6 | 147.9 | 91.1 | 58.5 | 84 | 63.9 | 67.4 | 3563 |
| 133.9 | 143.3 | 70.2 | 53.4 | 112 | 125.2 | 138.9 | 4599.8 |
| 111.4 | 78 | 108.1 | 108.8 | 83 | 140.6 | 116.6 | 4468.4 |
| 53.7 | 139.2 | 88.6 | 75 | 98.6 | 145.1 | 54.7 | 3714.6 |
| 72.2 | 64.9 | 62.6 | 83.6 | 60.3 | 80 | 104.8 | 3243.1 |
| 77.6 | 76.8 | 70.3 | 131.4 | 124.5 | 81.1 | 58.1 | 3881.9 |
| 144.9 | 92.4 | 61.5 | 102.2 | 66 | 105.1 | 67.6 | 4142.8 |
| 68.7 | 145.3 | 109.8 | 96.8 | 133.7 | 107.2 | 117.7 | 4455.4 |
| 54.9 | 122.3 | 117.2 | 97.3 | 98 | 87.6 | 106.9 | 3916.4 |
| 83.5 | 108.3 | 115.7 | 51.7 | 143.7 | 110.6 | 57.8 | 3759.1 |
| 90.8 | 51.8 | 130.4 | 67.2 | 106.5 | 58.7 | 143.3 | 3728.3 |
| 66.4 | 64.2 | 76.1 | 75.3 | 88.1 | 96 | 123.6 | 3476 |
| 98.1 | 129.8 | 54.2 | 89.8 | 145.8 | 107.7 | 53.6 | 4138.9 |
| 123.7 | 62.4 | 57.5 | 128.8 | 147.4 | 139.6 | 149.9 | 4997 |
| 140.3 | 93.9 | 129.4 | 81.4 | 148.9 | 126.8 | 138 | 4997.7 |
| 136.3 | 87 | 125.7 | 57.1 | 55.6 | 99.1 | 68 | 3763.9 |
| 121.9 | 83.9 | 118.5 | 132.5 | 143.2 | 126.1 | 119.8 | 5062.4 |
| 133.7 | 113.9 | 128.8 | 99.2 | 76.8 | 78.6 | 82.4 | 4338.2 |
| 101.7 | 140.2 | 94.6 | 62.3 | 109 | 130.2 | 137.4 | 4466.7 |
| 58.4 | 99.2 | 89.8 | 129.6 | 101.1 | 62.5 | 140.4 | 4095.6 |
| 90.6 | 149.6 | 103.9 | 66.4 | 83.5 | 74.2 | 123.6 | 4017.3 |
| 101.6 | 83.1 | 123.7 | 52.3 | 148 | 143.4 | 66.8 | 4034.5 |
| 142.6 | 96.7 | 149.1 | 116.1 | 72.3 | 114.7 | 137 | 4960.2 |
| 73.2 | 61.5 | 84.3 | 63.2 | 102.2 | 57.6 | 113.9 | 3281.4 |
| 121.1 | 103.6 | 76.4 | 79.3 | 137.1 | 69.7 | 60.3 | 4000.4 |
| 73.4 | 114.1 | 136.2 | 85.4 | 102.4 | 95.6 | 126.3 | 4138.6 |
| 139.1 | 68.9 | 117.7 | 108.2 | 68.4 | 80.3 | 55.3 | 4020.2 |
| 128.5 | 126.8 | 109 | 50.1 | 99.4 | 58.8 | 129.3 | 4140.6 |
| 107.4 | 107.7 | 78.4 | 52.3 | 116.5 | 79.3 | 89.7 | 3764.6 |
| 120.9 | 144.4 | 81.9 | 125.3 | 119.8 | 56 | 68.5 | 4529 |
| 50.7 | 56.9 | 126 | 65.2 | 132.9 | 118.4 | 83.8 | 3458.2 |
| 84.2 | 145.1 | 56.8 | 140.3 | 125.5 | 99.2 | 79.9 | 4546.6 |
| 91.7 | 79.2 | 71.7 | 106.1 | 100.8 | 73.5 | 110.9 | 3914.8 |
| 145.5 | 146.5 | 85.6 | 136.2 | 78.8 | 65 | 84.1 | 4771 |
| 107.3 | 97.3 | 74.7 | 114.7 | 57.5 | 62.7 | 88.3 | 3867.3 |
| 120.1 | 59 | 81.7 | 141 | 78.1 | 55.3 | 106.1 | 4179.6 |
| 145.7 | 138.5 | 103.8 | 68.5 | 76.2 | 76.4 | 69.6 | 4165.5 |
| 138.8 | 64.6 | 81.2 | 138.3 | 106.1 | 91.7 | 112.3 | 4682.6 |
| 136.6 | 120.1 | 96.6 | 139.4 | 89.8 | 79.4 | 107.1 | 4842 |
| 95.2 | 126.8 | 91.9 | 82.7 | 75.1 | 142.6 | 123.1 | 4304.8 |
| 115.4 | 111.9 | 80 | 64 | 61.4 | 51.8 | 77.6 | 3505.6 |
| 118 | 106 | 70 | 104.2 | 99 | 149.8 | 68.8 | 4401.3 |
| 65.8 | 55.9 | 145 | 106.5 | 79.8 | 137.7 | 113.9 | 3991.5 |
| 128 | 143.4 | 50.1 | 105 | 99.8 | 131.3 | 87.5 | 4649.9 |
| 54.6 | 67 | 105.8 | 144.4 | 69.1 | 120.3 | 149.8 | 4218 |
| 111.3 | 127.7 | 82.1 | 141.4 | 73.5 | 127.4 | 107 | 4777.6 |
| 115.5 | 141.4 | 50.8 | 66 | 62 | 144.9 | 88.2 | 4073.6 |
| 72.3 | 142.2 | 77.1 | 68.7 | 54.8 | 144.1 | 91.1 | 3772 |
| 90.9 | 55.1 | 104.7 | 50.2 | 147 | 62.1 | 130.1 | 3675.2 |
| 125.6 | 82.8 | 57 | 141.6 | 134.5 | 94.1 | 71.5 | 4564.8 |
| 68.3 | 126.9 | 131.3 | 84.4 | 128.4 | 137.2 | 130.6 | 4480.4 |
| 138.8 | 87.2 | 143.3 | 70.8 | 62.5 | 53.5 | 95.4 | 3919.1 |
| 64.9 | 103.1 | 145.6 | 58.5 | 80.2 | 143.9 | 145.9 | 4008.1 |
| 120.3 | 84.7 | 50.3 | 144.3 | 55.5 | 64.3 | 82.3 | 4058.8 |
| 97.5 | 103.7 | 89.5 | 74.3 | 147.1 | 87.1 | 66.3 | 3935.5 |
| 119.7 | 133.3 | 86.8 | 75.4 | 87 | 138.6 | 56.3 | 4191.5 |
| 64.1 | 116 | 107.6 | 69.7 | 133.7 | 129.1 | 127.8 | 4157.5 |
| 93.6 | 95.8 | 141.2 | 111.8 | 114.9 | 131 | 104.8 | 4569.7 |
| 87.7 | 94.7 | 108.5 | 108.4 | 76.1 | 61.8 | 89.8 | 3823.8 |
| 123.8 | 82.4 | 132.4 | 107.8 | 120.6 | 61.1 | 54.3 | 4162.4 |
| 90.9 | 63.5 | 50.1 | 133.2 | 136.2 | 86.9 | 81.5 | 4081.7 |
| 85.2 | 81 | 149.5 | 136.4 | 57.8 | 127.6 | 77.7 | 4225.6 |
| 137.9 | 81.4 | 82.2 | 54.4 | 116.9 | 138.6 | 52.6 | 3995.9 |
| 68.1 | 104.9 | 63.5 | 85.6 | 110.8 | 51.4 | 84.5 | 3458.3 |
| 81.9 | 66.6 | 131.4 | 90 | 113.4 | 108.6 | 142.3 | 4182.6 |
| 136.3 | 55.2 | 54.4 | 132.6 | 124.5 | 64.8 | 86.9 | 4320.6 |
| 103.2 | 64.5 | 50.6 | 56.1 | 130.9 | 79.5 | 74.2 | 3448.5 |
| 87.2 | 104.9 | 88.9 | 96.7 | 87.4 | 97.9 | 133.3 | 4144.3 |
| 127.3 | 140.2 | 145.3 | 139.7 | 109 | 104.6 | 85.1 | 5117.8 |
| 104 | 88.9 | 104.6 | 122.2 | 113.7 | 101.9 | 72.4 | 4304.4 |
| 85.5 | 77.7 | 117.5 | 61.2 | 98.6 | 63.7 | 81.2 | 3396 |
| 84.4 | 73.6 | 52.1 | 105.7 | 77.8 | 67.3 | 55.8 | 3342.2 |
| 112.8 | 120.1 | 143.1 | 115.1 | 72.9 | 104.8 | 106.7 | 4593.7 |
| 144.4 | 147.8 | 62 | 74 | 124.1 | 96.7 | 97.7 | 4603.4 |
| 60.1 | 107.8 | 81.7 | 99.6 | 50.5 | 53.1 | 131.2 | 3532.9 |
| 129.8 | 94.7 | 69.8 | 134.2 | 123.7 | 148.2 | 94.5 | 4949.5 |
| 132.1 | 99.8 | 102.6 | 112.6 | 113 | 142 | 149.8 | 5093.5 |
| 90.9 | 130.6 | 135.3 | 68 | 113.1 | 83.8 | 119.3 | 4197.6 |
| 91.7 | 106.6 | 124.2 | 76 | 71.2 | 138.5 | 132.8 | 4215.8 |
| 67.3 | 66.5 | 145.1 | 125 | 116 | 107.3 | 113.8 | 4252.2 |
| 97.1 | 61.9 | 147.1 | 115.7 | 82 | 84.2 | 74.1 | 3936.3 |
| 88.5 | 91.2 | 133.7 | 66.9 | 116.3 | 85.9 | 132.5 | 4033.9 |
| 129.1 | 93.6 | 54 | 108.4 | 60.9 | 135.8 | 125.5 | 4454.9 |
| 68 | 94.8 | 83.3 | 82.8 | 133 | 50.4 | 87.9 | 3578.2 |
| 84.6 | 83.7 | 84.7 | 108 | 68.8 | 73.8 | 98.4 | 3714.2 |
| 104.2 | 123.3 | 124.9 | 90.5 | 118.5 | 142.9 | 125.3 | 4769.8 |
| 109.2 | 118.6 | 52.1 | 136.8 | 127 | 99.5 | 133.1 | 4859.4 |
| 122.2 | 108.1 | 130.8 | 101.9 | 133.8 | 70 | 73.8 | 4436 |
| 126.9 | 94.6 | 112.5 | 112 | 81.4 | 121.4 | 140.9 | 4758.5 |
| 81.9 | 129.4 | 50.2 | 118 | 125.3 | 55.8 | 148.4 | 4379.8 |
| 147.9 | 127 | 88 | 101.7 | 67.7 | 122.9 | 83.8 | 4594 |
| 139.7 | 144.5 | 58.9 | 134.5 | 62.7 | 140.6 | 110.5 | 5009.6 |
| 70.3 | 83.4 | 59.4 | 89.7 | 88.7 | 147.6 | 120.4 | 3894.7 |
| 104.3 | 140.4 | 148.4 | 146.5 | 132.3 | 122 | 147.1 | 5491.7 |
| 60.4 | 106.1 | 140.9 | 109.3 | 130 | 132.2 | 71.7 | 4233.5 |
| 115.1 | 138.2 | 74 | 121 | 128.2 | 126.9 | 82.8 | 4815.9 |
| 142.2 | 123.9 | 54.1 | 105.7 | 67.2 | 52.3 | 102.9 | 4261.9 |
| 127.8 | 132.4 | 65.1 | 71.2 | 64.7 | 116.3 | 74.4 | 4034.4 |
| 131.6 | 114.8 | 127.2 | 77.8 | 75.5 | 130.7 | 74.2 | 4320.7 |
| 119.4 | 145.3 | 118.7 | 62 | 126.9 | 81 | 86.4 | 4306.1 |
| 147.9 | 118.4 | 104.7 | 101.5 | 63.8 | 145.4 | 92.4 | 4733.3 |
| 98.2 | 129.3 | 66 | 103.7 | 63.3 | 104.7 | 143.5 | 4327.9 |
| 84.4 | 142.4 | 72 | 84.4 | 112.2 | 50.5 | 100.6 | 3902.7 |
| 63.8 | 123.1 | 138.7 | 73.4 | 135.9 | 148 | 105.9 | 4305 |
| 103.4 | 113.6 | 51.4 | 99.8 | 145.8 | 146.2 | 115.9 | 4668.4 |
| 65.3 | 52.8 | 84.8 | 88.5 | 117.8 | 85.2 | 141 | 3714.4 |
| 83.4 | 81.9 | 134 | 67.7 | 136 | 143.2 | 112.8 | 4206.4 |
| 71 | 140.6 | 70.8 | 125.7 | 81.6 | 85.5 | 132.3 | 4310.6 |
| 79.4 | 75.5 | 144.2 | 52.2 | 66.8 | 138.4 | 109.1 | 3649.4 |
| 145.6 | 75.6 | 121.1 | 136.5 | 62.9 | 111.6 | 139.9 | 4929.5 |
| 72.5 | 69.4 | 92.9 | 52.9 | 107.9 | 80.3 | 129.7 | 3457.3 |
| 89 | 121.1 | 119.3 | 107.5 | 128.8 | 111.3 | 116.3 | 4604.8 |
| 63.8 | 112.2 | 121.6 | 77.9 | 134.3 | 114.6 | 136.3 | 4225.8 |
| 94.7 | 137.4 | 126.9 | 110.1 | 53 | 142.4 | 129.1 | 4618.1 |
| 65.2 | 84.8 | 50.8 | 85.1 | 105.9 | 142.3 | 68.2 | 3600.8 |
| 94.6 | 109.3 | 68.5 | 63.6 | 78.5 | 127.5 | 64.3 | 3622.2 |
| 91.7 | 71 | 139.9 | 143.2 | 131 | 139 | 79.2 | 4686.6 |
| 136 | 88 | 112.6 | 144.8 | 137 | 76.8 | 56.8 | 4723 |
| 51.8 | 77.2 | 68.1 | 130.9 | 95.7 | 147.3 | 108.6 | 4055.6 |
| 51.7 | 54.3 | 133.9 | 91.7 | 72.3 | 102.7 | 58.4 | 3212.2 |
| 98.4 | 83.5 | 109.4 | 149.6 | 144.1 | 85 | 86.4 | 4634 |
| 87.9 | 124.2 | 138.5 | 117.8 | 99.7 | 145.1 | 127.1 | 4826.8 |
| 137.7 | 67.5 | 137.4 | 97.6 | 114.6 | 86.6 | 56.8 | 4217.2 |
| 145.8 | 73.1 | 51.5 | 141.2 | 116.6 | 147.9 | 63.5 | 4784.7 |
| 112 | 143.9 | 66.7 | 93.3 | 119.8 | 81.6 | 51.5 | 4146.6 |
| 125.1 | 144.5 | 101.2 | 110.9 | 76 | 84.2 | 128.8 | 4706.5 |
| 57 | 134.1 | 63 | 73.8 | 119.4 | 88.5 | 140.6 | 3918.4 |
| 56.3 | 94.5 | 108.1 | 90.3 | 96.9 | 95.7 | 146 | 3927.2 |
| 123.2 | 114.2 | 130.1 | 85 | 149 | 102.6 | 124.6 | 4812.8 |
| 58.3 | 69.8 | 50.7 | 138.2 | 79.3 | 65.4 | 107.9 | 3638.2 |
| 138.3 | 104.5 | 116.8 | 66.6 | 119.9 | 105.8 | 90.8 | 4396 |
| 72.2 | 52.2 | 130.1 | 79 | 74.1 | 106 | 106.5 | 3523.1 |
| 96.9 | 65.9 | 96.8 | 109.8 | 70.2 | 138.9 | 98.6 | 4084.2 |
| 75.2 | 57.8 | 149.6 | 79.2 | 131.2 | 69.5 | 116.9 | 3812.3 |
| 140.6 | 124.3 | 102.9 | 76.6 | 81.9 | 146.9 | 120.4 | 4707.2 |
| 81.9 | 109.2 | 103.8 | 78.5 | 55.6 | 111.8 | 94.2 | 3704.1 |
| 104.1 | 113.8 | 139.1 | 131.3 | 90.1 | 127.5 | 144.5 | 4999 |
| 78.5 | 99.3 | 74.1 | 143.8 | 126.2 | 75.5 | 87 | 4264.6 |
| 81.4 | 88.4 | 77.2 | 138 | 125.5 | 113.8 | 141.2 | 4637.1 |
| 69.7 | 126.8 | 87 | 115 | 131.3 | 59.9 | 58.6 | 3917.9 |
| 81.1 | 149.4 | 50.4 | 83 | 83.4 | 95.6 | 57.6 | 3690.2 |
| 104 | 146.3 | 108.2 | 67.4 | 112.7 | 93.6 | 132.1 | 4412.7 |
| 57.9 | 98.8 | 135.4 | 97.3 | 66.7 | 94.3 | 133.7 | 3873.6 |
| 136.8 | 76.5 | 120.5 | 121.9 | 118.6 | 76.5 | 65.1 | 4443.8 |
| 87.1 | 70.1 | 76 | 65 | 104.8 | 100 | 133 | 3737.5 |
| 88.6 | 122.8 | 51.1 | 96.4 | 83.5 | 131.1 | 110.2 | 4155.8 |
| 145.9 | 113.2 | 143.8 | 101.9 | 145.9 | 127.2 | 51.4 | 4910.5 |
| 104 | 53.4 | 86.3 | 148 | 63.3 | 129.5 | 126 | 4439.1 |
| 116.3 | 68.2 | 133.4 | 144.8 | 95.5 | 79.2 | 145 | 4774.6 |
| 84.5 | 132.3 | 90.3 | 114 | 147.8 | 71.3 | 96.7 | 4419.8 |
| 109.3 | 127.8 | 79.3 | 55.3 | 126.3 | 52.9 | 50.1 | 3642.4 |
| 56.5 | 50.8 | 142.4 | 105.8 | 132.4 | 57.1 | 116.5 | 3771.5 |
| 60.9 | 141 | 80.3 | 59.9 | 52.1 | 144.4 | 113.6 | 3708.5 |
| 124.5 | 79 | 62.9 | 69.2 | 119.6 | 148.8 | 73.4 | 4096.3 |
| 123.4 | 58.6 | 59.1 | 94.5 | 95.7 | 137.6 | 112.4 | 4225.1 |
| 96 | 146.9 | 93.1 | 51.2 | 70.3 | 107.8 | 54.6 | 3622.8 |
| 96.4 | 60.8 | 100.6 | 51.2 | 58.5 | 56.5 | 117.6 | 3228.4 |
| 83 | 105.7 | 103.3 | 133.4 | 145.1 | 118.3 | 146 | 4918.3 |
| 142.5 | 82.1 | 76.1 | 74.3 | 102 | 95.8 | 103.6 | 4179.6 |
| 72 | 61.6 | 139.9 | 89.1 | 149.6 | 119.6 | 66.8 | 3928.6 |
| 102.3 | 74.1 | 101.4 | 61.1 | 66.9 | 104.6 | 58.1 | 3388.5 |
| 148.5 | 147.3 | 84.9 | 140.2 | 87.2 | 109.5 | 55.5 | 4932.3 |
| 111.2 | 149.6 | 85.8 | 137.8 | 148 | 138 | 145.5 | 5494.5 |
| 130.5 | 94.7 | 145.9 | 87 | 134.6 | 103.7 | 88 | 4579.1 |
| 68.1 | 79.4 | 132.2 | 114.7 | 134 | 85.8 | 130.4 | 4281.4 |
| 95.4 | 69.7 | 76.1 | 57.3 | 50.6 | 127.1 | 61.7 | 3229.2 |
| 78.7 | 117.6 | 94.2 | 147.4 | 50.8 | 80.6 | 112.9 | 4231.4 |
| 96.6 | 59.4 | 62.2 | 105.9 | 77.5 | 147.4 | 52.7 | 3743.1 |
| 70.1 | 108.7 | 112.4 | 109.7 | 80 | 145.5 | 64.8 | 4033 |
| 61.3 | 103.1 | 60.6 | 98.9 | 77.9 | 70.1 | 98.9 | 3497.2 |
| 86.5 | 91.3 | 54.3 | 60 | 56.1 | 107.8 | 123.6 | 3494.4 |
| 117.2 | 145.9 | 137.9 | 81.2 | 55.7 | 144.1 | 87.7 | 4461.3 |
| 71.9 | 142.2 | 117.8 | 97.7 | 86.1 | 147.2 | 97 | 4331.4 |
| 53.1 | 70.4 | 109.3 | 86.6 | 51.1 | 60.4 | 61.2 | 2915.4 |
| 100.5 | 147.9 | 71.6 | 107.2 | 106.3 | 60.4 | 128.2 | 4443.7 |
| 112.8 | 100.8 | 149 | 116.1 | 67.6 | 144.7 | 59.1 | 4428 |
| 148.4 | 65.2 | 72 | 130.1 | 51.6 | 73.7 | 118.5 | 4351.9 |
| 91.6 | 112 | 140.4 | 95 | 90 | 101.9 | 77.9 | 4111.3 |
| 130.7 | 147.7 | 134.3 | 53.5 | 146.9 | 109.2 | 90.7 | 4648.9 |
| 80.8 | 61.5 | 134.2 | 80 | 98 | 137.2 | 118.2 | 3992.2 |
| 56 | 94 | 60.8 | 147.2 | 117.4 | 109.3 | 81.2 | 4101.7 |
| 119.5 | 99.3 | 137.1 | 91.5 | 118.4 | 116.4 | 122 | 4665.4 |
| 51.4 | 147.7 | 107.7 | 68 | 108.8 | 105.5 | 56.1 | 3613.2 |
| 71.2 | 136.6 | 116.4 | 74.4 | 118 | 89.6 | 142.1 | 4227.2 |
| 144.8 | 140.8 | 56.4 | 83.7 | 93.3 | 85.2 | 91.9 | 4392.9 |
| 105.7 | 50.4 | 133.3 | 75.4 | 138.6 | 138 | 86.9 | 4155.1 |
| 124.5 | 140.3 | 63.7 | 73.4 | 84.8 | 54.5 | 83.2 | 3928.8 |
| 135.5 | 60.7 | 116.5 | 111.1 | 56.6 | 120.6 | 131.4 | 4479 |
| 83.2 | 89 | 98.4 | 86.9 | 119.4 | 75.3 | 138.4 | 4044.4 |
| 113.6 | 136.7 | 72.8 | 52.1 | 129.4 | 51.3 | 81.2 | 3844.9 |
| 97.1 | 71.5 | 149.7 | 90.8 | 113.1 | 96.6 | 121.7 | 4229 |
| 148.9 | 91 | 113.7 | 54.1 | 113.9 | 107.4 | 99.7 | 4314.9 |
| 141.1 | 96.8 | 120.4 | 81.8 | 148.1 | 90.9 | 68.7 | 4466.6 |
| 124.9 | 99 | 71.6 | 65.2 | 129 | 50.4 | 55.5 | 3717.6 |
| 68.3 | 88.3 | 69.3 | 131.7 | 125.3 | 67.5 | 64.1 | 3828.3 |
| 104.9 | 79.2 | 82.5 | 108.8 | 53.1 | 142.2 | 136.5 | 4295.7 |
| 133.1 | 80.1 | 59.2 | 85.9 | 133.2 | 149.8 | 130.2 | 4679.2 |
| 133.4 | 63.4 | 132.4 | 72.1 | 62 | 130.4 | 114.9 | 4173.8 |
| 84.4 | 78.5 | 144.3 | 99.1 | 99.1 | 132.7 | 80 | 4095.9 |
| 98.1 | 83.2 | 132.5 | 145.2 | 55.2 | 70.2 | 61.7 | 4035.2 |
| 63.8 | 90.6 | 67 | 137.3 | 142.9 | 111 | 100 | 4319 |
| 129.5 | 106.2 | 102.5 | 88.7 | 70.3 | 147.4 | 75.4 | 4322.6 |
| 93.6 | 104.8 | 51.9 | 68.1 | 67.8 | 113.9 | 105.5 | 3684.5 |
| 78.5 | 129.4 | 105.8 | 88.2 | 145.2 | 89.4 | 147.3 | 4497.3 |
| 146.9 | 92.5 | 59.5 | 57.5 | 147.4 | 143.1 | 61.6 | 4319.4 |
| 102.1 | 120.1 | 116 | 124.9 | 57 | 77.2 | 115 | 4352.9 |
| 55.1 | 129.5 | 126 | 85.6 | 60.9 | 120.9 | 114 | 3887.8 |
| 82.1 | 87.6 | 127.8 | 112.6 | 116.1 | 86.5 | 144.6 | 4407.7 |
| 60.8 | 95.6 | 66.5 | 128.1 | 83.3 | 112 | 124.3 | 4071 |
| 58.8 | 89.2 | 60.3 | 123.8 | 127.4 | 82.5 | 148.7 | 4176.6 |
| 146.8 | 129.1 | 123.5 | 149.7 | 77.5 | 54.3 | 144.7 | 5174.2 |
| 133.2 | 71 | 117.6 | 132 | 120.6 | 130.6 | 107.6 | 4934.9 |
| 110 | 141.4 | 98.6 | 62.3 | 98.5 | 52.3 | 90.8 | 3904.2 |
| 121.2 | 77.5 | 82 | 149.6 | 76 | 101 | 131.8 | 4690.6 |
| 119.4 | 57.3 | 144.8 | 129 | 129.3 | 74.8 | 98.2 | 4539 |
| 103 | 57.2 | 95.3 | 55.6 | 136.2 | 114.4 | 98.9 | 3828.3 |
| 118.7 | 111.8 | 69.9 | 126.7 | 56.4 | 122.9 | 133 | 4629.4 |
| 70.4 | 118.3 | 122 | 95.4 | 114.7 | 98.3 | 138.7 | 4307.5 |
| 68 | 139.7 | 126.1 | 67.9 | 138.1 | 84.3 | 102.3 | 4049.6 |
| 69.2 | 55.9 | 71.8 | 60.2 | 51.2 | 134.8 | 119.1 | 3258.2 |
| 110.2 | 101.5 | 73.1 | 103.6 | 87.2 | 61.1 | 117.5 | 4100 |
| 109.5 | 107.6 | 73 | 101.6 | 124.8 | 76.8 | 107.1 | 4303 |
| 131.3 | 104.8 | 76.8 | 91.1 | 119.2 | 136.6 | 134.8 | 4794.1 |
| 139.1 | 86.1 | 70.7 | 133.7 | 60.5 | 58 | 85.9 | 4221.8 |
| 129.3 | 142.3 | 120.2 | 60.7 | 54.2 | 84.8 | 100.1 | 4116.6 |
| 119.7 | 52.2 | 119.3 | 123.9 | 105.8 | 115.6 | 113.6 | 4539.9 |
| 77.9 | 74.8 | 106.6 | 134.3 | 93.4 | 60 | 141.4 | 4197.9 |
| 69.9 | 100.8 | 53.7 | 73.2 | 122.7 | 134.4 | 125.3 | 3947.4 |
| 72.8 | 89.6 | 137.3 | 51 | 84.9 | 61.1 | 77.7 | 3223.6 |
| 86.9 | 65.6 | 70.6 | 122.1 | 59.6 | 103.7 | 79.9 | 3704.7 |
| 74.9 | 69.7 | 149.7 | 65.3 | 112 | 89.1 | 102.2 | 3677.1 |
| 140 | 52 | 115.7 | 55.5 | 76.8 | 70.1 | 85.7 | 3623.8 |
| 70 | 57 | 122.2 | 86.3 | 63 | 53.9 | 90.6 | 3210.2 |
| 68 | 137.4 | 106.4 | 82.7 | 77.3 | 72.8 | 105.7 | 3770.9 |
| 73.8 | 135.5 | 121.7 | 105.8 | 125.3 | 78.1 | 104.2 | 4314.3 |
| 96.6 | 115.8 | 112.6 | 135.3 | 58.1 | 121.5 | 110.4 | 4539.3 |
| 50.4 | 135 | 62.5 | 97.9 | 121.3 | 125.8 | 104.3 | 4067.7 |
| 124.2 | 119.6 | 109 | 100 | 107.2 | 90.4 | 50.2 | 4280.3 |
| 60.6 | 54 | 132 | 146.3 | 147.5 | 57.8 | 128.6 | 4286.3 |
| 124.6 | 57.9 | 78.2 | 63.3 | 134.7 | 69 | 120.8 | 3933.2 |
| 116.4 | 108.7 | 58.3 | 105.8 | 69.5 | 77.2 | 59.8 | 3858.9 |
| 127.4 | 113.4 | 86.7 | 148.1 | 130.3 | 87.3 | 97.8 | 4970.9 |
| 85.6 | 70.1 | 62.4 | 79.6 | 85.5 | 93.1 | 50.1 | 3266.2 |
| 108.1 | 130.1 | 77.3 | 125.4 | 124.1 | 112.5 | 145 | 4981.5 |
| 106.4 | 117.2 | 69.5 | 138.7 | 97.1 | 97.5 | 60.3 | 4367.4 |
| 90.6 | 71.3 | 60.2 | 110.7 | 87.8 | 75.2 | 86.8 | 3690.8 |
| 113.7 | 123.4 | 98.8 | 85.4 | 88.7 | 146.1 | 128 | 4608.7 |
| 93.6 | 78.6 | 116.7 | 59.2 | 121.4 | 62.7 | 111 | 3704.4 |
| 86 | 85.4 | 50.3 | 102 | 143.2 | 146.7 | 104.7 | 4314.9 |
| 108.3 | 117.3 | 57 | 103.9 | 96.8 | 93.9 | 126.6 | 4361.1 |
| 91.3 | 75.5 | 122.2 | 56.2 | 93 | 123.6 | 61.4 | 3542.3 |
| 119.5 | 90.2 | 110.7 | 67.3 | 137.6 | 116.8 | 143.6 | 4538.9 |
| 122.1 | 103.9 | 73.8 | 63.8 | 72.3 | 149.2 | 135 | 4289.6 |
| 130.3 | 59.8 | 102 | 127.6 | 90.7 | 58 | 126.3 | 4404.7 |
| 106.1 | 146.5 | 147 | 78.3 | 84.6 | 86.7 | 59 | 4093.5 |
| 51.4 | 78.5 | 65.6 | 73.8 | 108.2 | 123.2 | 143.9 | 3690.3 |
| 142.6 | 107.7 | 53.1 | 52.7 | 74.6 | 77.2 | 122.5 | 3954.3 |
| 82.1 | 77.9 | 81.3 | 53.3 | 103.9 | 141.5 | 106 | 3695.7 |
| 74.9 | 122.1 | 99.3 | 138.3 | 88.4 | 97.1 | 149.2 | 4610 |
| 75.4 | 85.8 | 113.3 | 60 | 121.2 | 99.2 | 91.5 | 3649.5 |
| 51 | 104.7 | 81.1 | 131.3 | 137.3 | 56.4 | 129.9 | 4137.2 |
| 121.5 | 95.3 | 118.8 | 117.9 | 112.4 | 104.6 | 115.8 | 4732.2 |
| 111 | 140.1 | 50.4 | 103.7 | 141.1 | 131.6 | 57.1 | 4521.2 |
| 81.4 | 103 | 98.9 | 90.3 | 102.6 | 102.6 | 64.1 | 3813 |
| 63.3 | 123.7 | 96.6 | 135.3 | 135 | 87.9 | 138.9 | 4625.8 |
| 121 | 147.7 | 104.3 | 130.2 | 56.6 | 91.8 | 128.2 | 4802.1 |
| 65.5 | 131.2 | 103.3 | 84.9 | 116.9 | 97.4 | 67.3 | 3837.5 |
| 89.2 | 76 | 136.2 | 124.7 | 101.8 | 109.4 | 73.6 | 4206.2 |
| 116.9 | 120.8 | 99.2 | 147.6 | 140.9 | 136.9 | 124.2 | 5352.2 |
| 133.8 | 83.2 | 123.7 | 86.7 | 88.3 | 139.9 | 89.3 | 4413.8 |
| 127.8 | 68.4 | 60.3 | 123.6 | 106.5 | 120.5 | 149 | 4727.9 |
| 88.2 | 69.8 | 90 | 139.2 | 147.5 | 95 | 85.3 | 4374 |
| 90.4 | 117.2 | 113.4 | 126.6 | 80.3 | 56.8 | 120.5 | 4282.1 |
| 64 | 71.2 | 60.6 | 125.7 | 121.9 | 67.2 | 88.5 | 3728.9 |
| 141.8 | 74.2 | 65.1 | 60.3 | 109.3 | 144.1 | 94.4 | 4196.2 |
| 134.2 | 118.7 | 76.1 | 119.3 | 102.2 | 133.9 | 137.7 | 5043 |
| 82.9 | 62.4 | 101 | 114 | 103.7 | 57 | 112.1 | 3854.9 |
| 123.7 | 82.2 | 143.8 | 110.8 | 148.9 | 66.4 | 60.2 | 4416 |
| 52.4 | 56.1 | 104.6 | 90.8 | 100.9 | 104.7 | 97.1 | 3486 |
| 100.8 | 65.7 | 119 | 138.9 | 142.4 | 95.3 | 67.1 | 4437.1 |
| 130.4 | 98.7 | 119.4 | 143.6 | 120 | 89.2 | 140 | 5149.3 |
| 85.5 | 125.9 | 120.5 | 89.7 | 54 | 99.7 | 90.7 | 3894.6 |
| 120.5 | 55.8 | 100.3 | 87.5 | 124 | 105.4 | 90.8 | 4128.5 |
| 128.4 | 57.7 | 73.9 | 78.7 | 68.9 | 132.6 | 71.5 | 3804 |
| 81.9 | 70.9 | 66.7 | 61.1 | 81.3 | 107.6 | 86.2 | 3318.3 |
| 103.3 | 114.8 | 132.5 | 57.8 | 70.1 | 51.5 | 118.8 | 3755.3 |
| 144.3 | 83.5 | 97.6 | 98.6 | 61.5 | 77.9 | 90.1 | 4129.5 |
| 67.9 | 66.3 | 117.4 | 106.3 | 92.9 | 100.8 | 117 | 3892.6 |
| 91.3 | 110 | 116.1 | 61.6 | 124.8 | 101.2 | 107.4 | 4052 |
| 52.1 | 101 | 79.2 | 75.4 | 57 | 104.6 | 107.9 | 3342.9 |
| 101.8 | 115.7 | 96.9 | 148 | 85.9 | 75.5 | 77.6 | 4407.3 |
| 131.4 | 134.9 | 111.2 | 73.2 | 113.6 | 148.1 | 94.6 | 4713.8 |
| 147.5 | 120.5 | 73.3 | 137.7 | 90.2 | 126.3 | 132 | 5212.2 |
| 71.4 | 51.7 | 63.3 | 75.6 | 95.9 | 91.2 | 89.2 | 3247.6 |
| 60 | 142.1 | 82.7 | 65.8 | 60.5 | 70.3 | 103.8 | 3410.3 |
| 58.5 | 86.6 | 103.8 | 79.6 | 124.7 | 91.1 | 121.7 | 3779.1 |
| 80.9 | 95.6 | 117.5 | 57.4 | 125.1 | 86.1 | 83.8 | 3652.3 |
| 136.5 | 103.9 | 144.4 | 135.5 | 121.9 | 79.5 | 115.7 | 5074.7 |
| 72.3 | 69.7 | 90.3 | 142.4 | 67.5 | 89.9 | 107.4 | 3960.6 |
| 63.9 | 121 | 73.8 | 127.7 | 108.1 | 142.6 | 132.6 | 4546.6 |
| 61.9 | 118.4 | 121.8 | 89.6 | 139.2 | 78.4 | 145.7 | 4253.2 |
| 118.3 | 58.2 | 149.7 | 58 | 119 | 120.5 | 142.3 | 4316.4 |
| 142 | 135.3 | 129.6 | 100.9 | 122.3 | 81.7 | 119.9 | 4975.6 |
| 84.4 | 58.5 | 55.2 | 114 | 99.7 | 144.5 | 58.7 | 3808.5 |
| 122.1 | 148.6 | 140.2 | 128.3 | 75.8 | 109 | 81.8 | 4842.3 |
| 105.6 | 56.3 | 96.6 | 117.8 | 59.9 | 79.7 | 79.3 | 3754 |
| 60.4 | 108.8 | 82.5 | 87.6 | 75.9 | 147.2 | 119.1 | 3924.7 |
| 86.4 | 77.7 | 57.3 | 99.8 | 58.6 | 85.8 | 100.3 | 3565.4 |
| 95.7 | 104.5 | 130.7 | 139.6 | 132.5 | 108.9 | 70.5 | 4662 |
| 86.6 | 99.1 | 112.7 | 136.2 | 95.1 | 88.4 | 59 | 4139.5 |
| 62.7 | 53.4 | 115 | 94.8 | 145.9 | 66.6 | 99.1 | 3682.3 |
| 79.5 | 94.5 | 70.5 | 99.4 | 88.6 | 133.4 | 116.3 | 4071.8 |
| 143.3 | 52.7 | 142.1 | 98.5 | 82.8 | 117.8 | 129 | 4576.2 |
| 72.4 | 88.1 | 88 | 56.6 | 60.9 | 110.6 | 125 | 3459.8 |
| 105.6 | 93.3 | 141.5 | 137.8 | 109.6 | 103.3 | 104 | 4744.8 |
| 94.9 | 57 | 85.2 | 112.1 | 58.7 | 127.3 | 128.7 | 4047.7 |
| 100.6 | 112 | 139.8 | 60 | 149.7 | 122.8 | 149.8 | 4630.5 |
| 107.9 | 83 | 105 | 139.8 | 87.8 | 74 | 53.3 | 4121.8 |
| 101.2 | 147.7 | 88.2 | 137.3 | 61.4 | 138 | 145.9 | 4973 |
| 103.7 | 143.7 | 106.2 | 118.3 | 83.3 | 56.1 | 96.5 | 4342.3 |
| 82.3 | 80.2 | 105.4 | 122.1 | 147.9 | 60.6 | 93.4 | 4155.8 |
| 59.4 | 51.6 | 86.2 | 73.9 | 128.4 | 132 | 143.6 | 3805.5 |
| 66 | 121.1 | 61.8 | 118.9 | 78.4 | 124.8 | 82.5 | 3976.4 |
| 116.2 | 91.6 | 122.4 | 129.5 | 148.1 | 102.1 | 102.8 | 4881.2 |
| 98.6 | 52.6 | 78.4 | 74.2 | 65.5 | 73 | 74.4 | 3211.3 |
| 52 | 118.9 | 140.9 | 80.8 | 116.2 | 73.8 | 133.9 | 3962.7 |
| 114.3 | 141.5 | 56.6 | 68.1 | 108.9 | 86.1 | 105.1 | 4137.9 |
| 82.2 | 102.6 | 131.5 | 137 | 52.6 | 72.6 | 132.5 | 4269.8 |
| 100.6 | 70.5 | 147 | 77.2 | 141.8 | 75.5 | 65 | 3889.6 |
| 112.9 | 107.7 | 149.1 | 129.9 | 91.2 | 96.3 | 110.5 | 4744.2 |
| 124.9 | 123.8 | 101.3 | 58.2 | 87.8 | 50.8 | 127.8 | 4050.9 |
| 60.7 | 131.6 | 121.5 | 81.8 | 147.9 | 55.4 | 56.2 | 3737.6 |
| 61.8 | 80.3 | 107.5 | 72.6 | 124.5 | 120.4 | 99.1 | 3740.5 |
| 73.4 | 137.1 | 133 | 81.4 | 61.4 | 67.3 | 64.1 | 3572.7 |
| 94.7 | 65.9 | 143 | 142.9 | 83 | 54.3 | 52 | 3931.6 |
| 84.6 | 144.9 | 90.9 | 87.3 | 142.6 | 123.7 | 75.1 | 4341.8 |
| 78 | 108 | 92.1 | 117.5 | 91.9 | 147.5 | 56.1 | 4127.7 |
| 142 | 71.5 | 70.2 | 110.9 | 69.3 | 56.8 | 59 | 3867.2 |
| 75.2 | 114 | 52.6 | 54.6 | 94 | 113.3 | 104 | 3568.8 |
| 106.1 | 85.3 | 65.2 | 106.1 | 111.8 | 138.7 | 136.5 | 4534.2 |
| 112.7 | 138 | 114.6 | 117.4 | 94.5 | 145.6 | 91.6 | 4843.4 |
| 50.7 | 116.8 | 131.4 | 95.9 | 134.1 | 124.9 | 128.4 | 4317.5 |
| 145 | 98.7 | 117.3 | 84.5 | 88.6 | 59.4 | 145.9 | 4495.6 |
| 132.5 | 71.7 | 109.7 | 89.3 | 96.1 | 52.7 | 105.8 | 4069.4 |
| 99.5 | 94.6 | 95.9 | 106.8 | 78.9 | 59.9 | 72.3 | 3787.3 |
| 123.7 | 71 | 140.5 | 142.3 | 61.2 | 73 | 83.7 | 4341.8 |
| 143.1 | 70.6 | 94.7 | 105.4 | 102.2 | 67.2 | 57.6 | 4097 |
| 142.7 | 148.8 | 86.8 | 132.9 | 131.4 | 94.4 | 56.9 | 5003.2 |
| 63.5 | 84.7 | 68.3 | 53.7 | 93.6 | 59.9 | 118.3 | 3174.4 |
| 95.9 | 82.2 | 57.8 | 133 | 133 | 77.9 | 50.2 | 4030.8 |
| 146.5 | 149.1 | 53.1 | 88.9 | 132.3 | 119 | 61.4 | 4690 |
| 125.7 | 110.2 | 84.8 | 141.4 | 64.3 | 131.6 | 60.9 | 4565.2 |
| 133.6 | 52.6 | 101.3 | 92.7 | 85.5 | 128.5 | 74.9 | 4100.6 |
| 109.3 | 88.6 | 130.1 | 82.3 | 106 | 56.9 | 77.7 | 3857.9 |
| 57.8 | 96.4 | 135.8 | 140.8 | 146.8 | 133.1 | 101 | 4643.5 |
| 119.1 | 86.5 | 136.1 | 101.8 | 86.4 | 90.7 | 68 | 4128.7 |
| 90.2 | 131.1 | 65.1 | 147 | 135.1 | 114.2 | 56.7 | 4598.3 |
| 80.2 | 146.7 | 106.5 | 54.7 | 67.7 | 132.7 | 125.4 | 4018.2 |
| 74.5 | 54.4 | 127.8 | 62.5 | 84.8 | 132.5 | 116.9 | 3638.4 |
| 54.6 | 71 | 148.2 | 90.7 | 134.5 | 107.4 | 56.6 | 3677.2 |
| 70.2 | 84.6 | 92.9 | 83.7 | 99.2 | 142.9 | 97.5 | 3859.9 |
| 65.5 | 114.1 | 58.9 | 94.3 | 60.6 | 145.1 | 57.8 | 3587.7 |
| 67.9 | 63.3 | 120.9 | 114.7 | 76 | 139 | 59.6 | 3756.1 |
| 133 | 93.2 | 141.5 | 102.9 | 116.1 | 83.7 | 106.5 | 4640.4 |
| 56.1 | 87 | 65.3 | 85.3 | 106.9 | 101.7 | 110.8 | 3607.5 |
| 55.2 | 125.1 | 98.3 | 137.3 | 105 | 146.7 | 70.1 | 4337.2 |
| 93.1 | 95.6 | 112.6 | 78.8 | 91.5 | 148.7 | 91.6 | 4103.2 |
| 130.3 | 125.8 | 147 | 87.8 | 101.4 | 132.7 | 51.3 | 4537 |
| 91.8 | 65.9 | 118.5 | 53.2 | 72.3 | 92.9 | 60.6 | 3219.2 |
| 122.7 | 149 | 58 | 148.8 | 137.8 | 138.2 | 92.7 | 5283.4 |
| 71 | 118.4 | 105.3 | 117 | 110.8 | 71.6 | 53.5 | 3889.3 |
| 110.4 | 90.1 | 136.7 | 93.2 | 128.8 | 50.6 | 129.1 | 4342.2 |
| 67.8 | 101.8 | 61 | 96.6 | 65.5 | 83.6 | 136.7 | 3721.4 |
| 76.8 | 61.6 | 139.5 | 109.1 | 109.9 | 97.3 | 146.8 | 4244.8 |
| 149.2 | 119.6 | 67 | 127.8 | 128.8 | 53.7 | 129.3 | 4968.6 |
| 129.4 | 142.1 | 74.2 | 93.8 | 112.4 | 90.7 | 123.8 | 4694.3 |
| 75.1 | 90.1 | 88 | 148.1 | 64.3 | 68.2 | 114.9 | 4064 |
| 75.6 | 118.6 | 144 | 141.5 | 63.2 | 139.1 | 74.5 | 4438.5 |
| 96.7 | 84.4 | 87.4 | 70.7 | 147.4 | 74.1 | 85.7 | 3831.7 |
| 144.2 | 95.3 | 142.8 | 100.8 | 109.4 | 100.3 | 102.4 | 4758.7 |
| 136.9 | 123.5 | 76.3 | 71.3 | 120.9 | 122.1 | 79.1 | 4425.8 |
| 129.1 | 86.4 | 56.7 | 82.4 | 142.4 | 75.5 | 100.2 | 4198.6 |
| 109.3 | 101 | 85.8 | 108.4 | 114.2 | 122.4 | 126.8 | 4621.1 |
| 50.5 | 111.1 | 145.3 | 82.4 | 101.5 | 120.9 | 112.9 | 3963.2 |
| 113 | 54.1 | 122.3 | 71.9 | 56.5 | 99.6 | 101.8 | 3678.3 |
| 125.3 | 108 | 136.7 | 129.9 | 141.4 | 69.8 | 66.1 | 4730.5 |
| 75.5 | 108.9 | 109.5 | 67.4 | 52.8 | 145.4 | 122.6 | 3865.4 |
| 63.5 | 102.8 | 81.1 | 120.3 | 93.3 | 92 | 79.5 | 3829.4 |
| 86.7 | 67.3 | 147.3 | 102.1 | 58.1 | 88.8 | 121.9 | 3912.4 |
| 91 | 129.7 | 107 | 61 | 147.7 | 130.4 | 130.3 | 4475.8 |
| 134.3 | 101.9 | 55.6 | 74.1 | 143.2 | 88.7 | 145.2 | 4546.3 |
| 105.4 | 146.4 | 132.9 | 119.7 | 120.3 | 89.3 | 53.9 | 4566.4 |
| 144.3 | 61.6 | 88.3 | 62.6 | 136.9 | 67.9 | 57.1 | 3840.7 |
| 82.2 | 64.7 | 136.6 | 57.7 | 82.5 | 142.1 | 125.6 | 3805.1 |
| 93.3 | 103.1 | 111.3 | 54.3 | 146.5 | 119.7 | 88 | 4046.8 |
| 99.5 | 120.3 | 146.1 | 80.2 | 98.1 | 116.9 | 98.9 | 4322.3 |
| 113.4 | 94.4 | 141.7 | 144.1 | 72.6 | 69.5 | 124.1 | 4637.7 |
| 51.1 | 140 | 121.2 | 55 | 114.9 | 60.7 | 70.2 | 3398.4 |
| 96.4 | 61.7 | 96.4 | 109.6 | 149.6 | 84.9 | 68.7 | 4043.8 |
| 103.2 | 55.1 | 87.4 | 129.5 | 122.6 | 62.1 | 95.9 | 4114 |
| 87 | 79.2 | 105 | 79.5 | 108.9 | 83.7 | 91.4 | 3723.1 |
| 67 | 81.8 | 68.8 | 104.6 | 78.4 | 147.4 | 121.4 | 3976.4 |
| 140.6 | 67.4 | 130.6 | 68.9 | 132.6 | 80 | 51.5 | 4016.4 |
| 59.3 | 142.3 | 141.4 | 86.3 | 70.6 | 74.9 | 94.3 | 3774.7 |
| 109.7 | 79.9 | 149 | 138 | 62.5 | 71 | 81.2 | 4227 |
| 111.6 | 55.6 | 140.3 | 83.7 | 149.5 | 90.5 | 112.9 | 4288 |
| 108.1 | 68.3 | 90.2 | 78.5 | 86 | 144.6 | 88.8 | 3955 |
| 111.9 | 91.7 | 85 | 94.6 | 66.1 | 140.9 | 148.7 | 4427.3 |
| 93.4 | 98.7 | 90 | 82.2 | 102.8 | 129.9 | 102.8 | 4106 |
| 104 | 69.2 | 72 | 124.1 | 132.4 | 116 | 57.8 | 4210.8 |
| 106 | 103.8 | 50.1 | 84.5 | 106.3 | 52.4 | 117.8 | 3893.6 |
| 149.1 | 118.7 | 132.1 | 131.7 | 113.7 | 120.3 | 50.2 | 4996.4 |
| 137.6 | 137 | 58.2 | 67.2 | 123.9 | 144.2 | 116.8 | 4722 |
| 89.4 | 72.3 | 90.6 | 75.3 | 85.6 | 129.8 | 135.3 | 3956.9 |
| 101.8 | 119.7 | 128.9 | 95.3 | 55.6 | 136 | 83.8 | 4234.7 |
| 137.7 | 115.1 | 91.5 | 68.2 | 50.2 | 131.9 | 121 | 4317.7 |
| 99 | 105.9 | 139.2 | 78.6 | 148.7 | 52.3 | 55.3 | 3945.7 |
| 110.2 | 103.9 | 85.2 | 148.5 | 92.1 | 106.2 | 66 | 4491.7 |
| 104.5 | 110.9 | 129.1 | 55.7 | 82.4 | 69.8 | 88.4 | 3716.9 |

**Question Number – 5:**

Using a linear model, what is the estimated y-intercept?

**Answer:** -19.19183721

**Reference: Template.xlsx/Regression/Copy the data to A10, Take answer from H12 (Clear all the pre-existing data at first)**

|  |  |
| --- | --- |
| X | Y |
| 92.1 | 430.839 |
| 80.1 | 364.059 |
| 60.1 | 274.159 |
| 82.8 | 396.052 |
| 57.3 | 251.007 |
| 64 | 301.41 |
| 73.4 | 338.206 |
| 87.6 | 412.384 |
| 93.2 | 407.938 |
| 66.7 | 311.403 |
| 55 | 248.8 |
| 65.6 | 293.954 |
| 93.9 | 453.051 |

**Question Number – 6:**

Select the 2 factors that are co-linear.

**Answer:** C, G

**Reference: Template.xlsx/Regression/Paste the data set at M16 and in Data Analysis go for Correlation. And find those variables whose correlation coefficient value is 1 or very much near to 1.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Factor A | Factor B | Factor C | Factor D | Factor E | Factor F | Factor G |
| 7.2 | 350.6 | -24.2 | 86.6 | 453.7 | 231.8 | -95.8 |
| 117.2 | -118.3 | 5.4 | 76.7 | 128.7 | -169.4 | 24.4 |
| -119.4 | -765.9 | 66.8 | 275.8 | -201.9 | -46.3 | 269 |
| -199.2 | 196.1 | -35 | -175.8 | 813 | -330.4 | -139.7 |
| 50.1 | -65.7 | 4.4 | 19.2 | -298.8 | 15.3 | 20.3 |
| 22.8 | -430.8 | -37 | -427.9 | -445.5 | 49.9 | -147.3 |
| -21.4 | 58.7 | -22.6 | 398.8 | 22 | 448.1 | -88.6 |
| 18.5 | -563.2 | 32.7 | 26 | -58 | 583.1 | 133.3 |
| 38.2 | 48.6 | -63.2 | 376.8 | -520.5 | -274.2 | -251.2 |
| 89.7 | -238.5 | 17.9 | -174.3 | -456.5 | -10.3 | 74.1 |
| -37.3 | 331.8 | -106.5 | 780.7 | -904.3 | 325.1 | -425.7 |
| 150.6 | -457.4 | 39.5 | 351.8 | -461.4 | -852.8 | 160 |
| 71.2 | 153.7 | 2.8 | -248 | 9.6 | 326.4 | 12.7 |
| 43.6 | 465.7 | -58.1 | -335.5 | -862.5 | -102.4 | -229.9 |
| 64.5 | 687.1 | -36.5 | 180.8 | 110.6 | 34.9 | -144.5 |
| -35.1 | 121.1 | -36.9 | -603.3 | -241.2 | 869.2 | -145.2 |
| -45.1 | -721.7 | -42.1 | 301.6 | -171.6 | -338 | -168.3 |
| -19 | -910 | 30.3 | -664.6 | -43.8 | -141.7 | 123.8 |
| 9.8 | 408.5 | 125.1 | 1237.6 | -778.5 | -649 | 502.1 |
| -0.2 | -8.3 | -18.7 | 722 | 128 | 284.5 | -73 |
| -92.4 | -19.6 | 46.1 | -156 | 243.5 | 351.2 | 186.6 |
| 43 | 619.8 | -136 | -142.1 | 446.6 | -162.4 | -541.6 |
| -13.7 | 594 | 55.2 | -216.3 | 781 | 239.6 | 221.2 |
| -40.3 | 231.8 | -31 | 229 | -427.1 | -11.8 | -123 |
| 1.1 | 350.7 | 22.1 | -419.1 | 106.5 | -72 | 88.5 |
| 12.7 | -232 | -89 | -409.9 | -559.1 | -171.1 | -354.9 |
| -60.7 | -39.3 | 52.8 | -414 | -363.9 | 224.2 | 211.5 |
| -143.9 | 17.7 | -13.7 | -90.5 | 7.8 | 896.5 | -53 |
| -87.8 | 93.3 | -1.7 | -648.7 | -139.9 | -115.5 | -4.9 |
| -55.6 | 469.8 | 43.8 | -353.9 | 124.8 | -72.7 | 175.6 |
| 16.1 | 213.9 | -29 | 222.4 | -106.1 | 673 | -114.5 |
| -104 | -192.4 | 123.2 | 330.8 | -84.6 | 95 | 495.1 |
| 35.7 | -222.3 | 70.2 | 510 | -141.8 | -122.1 | 282.5 |
| -179.3 | 44.1 | 49.3 | 144.6 | 765.8 | -151.2 | 198.6 |
| -150.1 | -297.4 | -25.3 | -308.2 | 856.7 | -4.3 | -100.8 |
| -74.6 | 91.6 | 27.9 | 136.7 | -954.1 | 447.8 | 112.2 |
| -140.7 | -367 | 22.6 | 225.3 | 742.7 | 482.8 | 92.6 |
| -39.9 | 84.2 | -49.3 | 680.6 | 475.4 | 221.8 | -194.3 |
| -114.2 | -371.3 | 25.1 | 478.5 | -49.4 | 238.1 | 101.3 |
| 77 | 129.4 | -13.5 | -331.9 | 732.4 | 62.2 | -53.5 |
| 109.4 | -255.9 | 2.1 | 65.7 | -767.9 | -370.6 | 8.8 |
| 55.8 | -89.2 | -50.3 | -316.8 | -164.7 | 349.4 | -199.8 |
| 68.9 | 37.7 | 25.6 | -149.1 | 150.4 | -239.9 | 104 |
| -26.9 | 276.7 | -105.4 | 136.3 | -251.5 | -65.6 | -420.6 |
| -24.9 | -279.9 | -80.2 | -30.5 | 321.9 | 232.6 | -317.9 |
| -44.6 | -151.7 | 58.3 | 382.3 | 885.9 | 320.1 | 235.3 |
| 38.4 | -277.2 | 28 | 435 | 95.9 | 606 | 113.4 |
| -43.1 | 154.8 | -18.4 | 13.5 | -18.1 | -430 | -72 |
| -148.1 | -157.8 | 17.4 | 539.8 | 406.9 | 588.8 | 70.6 |
| -91.7 | -34.3 | 7.2 | -320.1 | 435.8 | -365.6 | 29 |
| -62.9 | -201.3 | 56.1 | 673 | -154.6 | 122.9 | 225.4 |
| -18.6 | -675.2 | 68 | 38 | 598.5 | 654.5 | 272.9 |
| 39.2 | 182.8 | 17.7 | 20.3 | -339.2 | 320.5 | 73.7 |
| -78.1 | -411.1 | -30.5 | -843.3 | -247.9 | 536.3 | -119.2 |
| -21.6 | 210.3 | 71.1 | -494.9 | -771 | -353.4 | 286.1 |
| 76.5 | -225.1 | -40.4 | 6.8 | 17 | -297.5 | -161 |
| -76.5 | 775.1 | -13.2 | 415.8 | 541.1 | 277.5 | -52.4 |
| 97.1 | -239.4 | 41.5 | -168 | -40.2 | -213 | 168.3 |
| 68.7 | 149.3 | -79.5 | -1135.2 | 406.4 | 375.2 | -315.4 |
| 70.9 | 334.2 | -11.9 | -127.7 | -916.7 | 444 | -47.2 |
| 71.1 | 248 | 168.2 | -272.3 | -500.4 | 154.3 | 674.2 |
| -129.5 | -507.2 | 42 | -4.5 | 451.1 | -583.4 | 169.2 |
| 134.6 | -937.3 | -32.5 | 484 | 30.1 | -611.9 | -129.6 |
| -122.7 | -371.5 | -18.7 | 231.5 | 158.8 | -713.1 | -72.5 |
| 114 | 575.8 | 70.5 | 228.4 | 218.6 | 1030 | 283.4 |
| 39.1 | 560 | 11.9 | 1039 | -472.6 | 83.5 | 48.9 |
| 74.3 | -429.3 | 5.8 | 334.2 | -457.9 | 498.1 | 26 |
| -169.7 | 245.7 | 19 | -311.4 | 56.2 | 511.5 | 76.8 |
| -45.8 | -202.8 | 68.6 | -156.8 | 483.9 | -377.1 | 277 |
| -1.1 | -746.6 | 40 | -216.7 | 35.1 | -102.2 | 161.1 |
| -31.6 | 376.5 | 32.3 | -127.3 | 912 | 234.9 | 131.1 |
| -2.7 | -341.3 | 75.3 | 127.4 | 148.4 | -596.4 | 303.7 |
| -161.3 | -76.7 | -15.4 | -299.3 | 551.8 | -91.4 | -58.8 |
| -1.7 | 215.3 | -14.3 | 43.9 | 306.5 | -628.9 | -56.2 |
| -59.8 | -298.5 | -47 | -146 | 227.8 | -164.2 | -187.9 |
| -75.8 | -267.7 | 65.2 | 565.6 | -514.8 | -427.4 | 262.4 |
| 84.7 | -436.9 | -58 | -509.6 | 182.8 | 15.4 | -229.8 |
| -42.9 | 510.5 | -18.3 | -1185.2 | -279 | 229.3 | -70.7 |
| 80.5 | -249.2 | -33.2 | 555.5 | -206.6 | 591.7 | -132.6 |
| 158.8 | -117.7 | -20.3 | 745.6 | 241.4 | -523.5 | -79.9 |
| -59.1 | -90.5 | -105.8 | 444.2 | -636.8 | 27.7 | -423.1 |
| -9.2 | 81.2 | 29.7 | -952.4 | 275.2 | -224.3 | 119.1 |
| 41.9 | -221.2 | -40.9 | 775.1 | 8.1 | -63.1 | -160.6 |
| -109.7 | -322 | 72.8 | 461.4 | -620.7 | -212.8 | 293.6 |
| 47.7 | 161.9 | 4.1 | 565.1 | 562.1 | 208.1 | 16.8 |
| -24.1 | 699.3 | 15.3 | 255.7 | 986.1 | -137.3 | 62 |
| 112.5 | -368.3 | 74.6 | -349.3 | 767.4 | -378.2 | 299.4 |
| -47.3 | -108.7 | -28 | -617.5 | -109.9 | -349.8 | -109.6 |
| 111.6 | -264.2 | 23.5 | 1266.7 | 364.3 | 648.4 | 95.5 |
| -4.3 | 198.5 | 10.1 | 17.1 | -51.9 | -170.5 | 43 |
| 88.5 | 69.1 | -83.3 | -12.5 | -104.4 | -1305.9 | -331.3 |
| 36.6 | 123.6 | -72.7 | 634.2 | -212.9 | 91.9 | -290.5 |
| 53.4 | -280.7 | -1.7 | 129.1 | 118.2 | 97.6 | -6.2 |
| -43.1 | -284.7 | -6.8 | -166.4 | 478 | -255.2 | -25.3 |
| 8.8 | 621.6 | -91.2 | 426.4 | -145.3 | -27.9 | -363.5 |
| 76 | 205.6 | 27.2 | 977.2 | 957.2 | 337.6 | 111.6 |
| 52.3 | -521.3 | 86.1 | 216.5 | -1092.6 | -683.2 | 345.6 |
| -81.4 | -551.5 | -40.8 | -310.6 | -50.4 | -102 | -162.4 |
| -129.2 | -365.5 | -5 | -103.7 | 1027.1 | -324.5 | -18.6 |
| -30.7 | -583.7 | -37.2 | 60.1 | 1113.5 | -177.8 | -146.2 |
| -128.1 | -239.5 | -19.4 | 320.2 | 156.4 | -296.2 | -76.7 |
| 167.7 | -47.2 | -17.6 | 1102.8 | -453.4 | -258.1 | -69.6 |
| 114.1 | 272.6 | 21.6 | -414 | 119.4 | -154.8 | 88.9 |
| -19.4 | 184.8 | -63.3 | -27.9 | 1156.9 | 5.1 | -252.8 |
| -26 | 199.4 | -87.7 | 44.9 | 962.9 | -399.7 | -350 |
| -9.1 | -180.3 | 31.7 | -301.4 | -589 | 190.8 | 129.5 |
| 58 | 536.7 | -19.8 | 36.3 | -944.4 | -37.3 | -77.2 |
| -37.4 | -110 | -105.2 | -1117.9 | -1570.7 | -178.7 | -420.8 |
| -40 | 454.3 | -1.1 | -265.6 | 583.7 | 354 | -4 |
| 6 | 446.3 | -91.9 | -749.4 | -176.5 | 279.9 | -366.8 |
| -16.1 | 166.9 | 29.3 | -474.1 | 743.5 | -132.6 | 118.7 |
| -36.7 | -515 | -85.8 | 914 | 397.9 | -614.4 | -342.3 |
| -20.4 | 88.6 | -24.4 | -167.2 | -412 | -144.8 | -96 |
| 76.2 | 376.1 | -8.4 | -122.9 | -807.2 | -437.8 | -31 |
| 18.9 | 108.6 | -15.8 | -61.5 | 828.2 | 592.2 | -61.9 |
| 176.8 | 470.7 | -31 | 465.7 | -417.5 | -33.6 | -122.5 |
| 16.5 | 941.2 | 11.6 | -449.9 | 423.4 | -77.2 | 47.6 |
| 73.5 | 208 | 98.2 | 966.7 | -901.1 | 782.7 | 395.6 |
| 2.4 | 272.1 | 35.6 | 380.6 | -283.7 | 210.9 | 143 |
| -11.1 | 191.4 | -37.5 | -527.7 | -47 | -936.9 | -149 |
| 28.2 | 818.6 | -60.4 | -298.3 | 507.5 | -5 | -239 |
| 15.4 | 310.8 | -171.8 | 373.6 | -270.1 | -3.8 | -686.4 |
| -47.8 | 472.8 | -65.3 | -1221 | -733.9 | 66.4 | -260.7 |
| -21.8 | -336.6 | 23.6 | -352.8 | 250.7 | 316.8 | 96 |
| -0.2 | 90.5 | 118.7 | 350.3 | -138.4 | 37.7 | 475.4 |
| -67.5 | 230.5 | -31.4 | -842.6 | 576.7 | 143.2 | -125.6 |
| 36.6 | -297 | 76.1 | -427.8 | 245.2 | 246.1 | 305.7 |
| 74.3 | 70.8 | 33.2 | 963.4 | -52.2 | -25.1 | 133.9 |
| -82.1 | 703.9 | 73.6 | -181.9 | 309.6 | -112.3 | 294.7 |
| 1.8 | -336.5 | -8.2 | 471.4 | -18 | -576.1 | -30.9 |
| -53.9 | 755.7 | -1.5 | 375.1 | 156.9 | -783 | -5.7 |
| 134.4 | -42.8 | -113.1 | 45.1 | 173.9 | 210.8 | -451.3 |
| 173.9 | -346.5 | -15.9 | -876.3 | -390.1 | -833.9 | -63.2 |
| 11.2 | 270.4 | 80.7 | -603.5 | -286.2 | -435.2 | 325.7 |
| 17 | -355.2 | 73.2 | -338.1 | 61.9 | 147.4 | 294.4 |
| 46.1 | 86.9 | -42.9 | 14.8 | -691.6 | 57.7 | -171 |
| 160.9 | -161.9 | -46.2 | 592.3 | -424.8 | 244.9 | -183.6 |
| -32.3 | -224.8 | -7.2 | -209.8 | 439.5 | -113.5 | -26.1 |
| -85.8 | -356.7 | 8.3 | -435.7 | 1357.5 | -747.9 | 35.1 |
| 28.6 | -702.9 | 35.9 | -170.7 | -353.5 | -247.8 | 144.7 |
| 3.6 | 559.3 | 45.5 | -86 | -248.7 | -262.3 | 182.3 |
| 16.2 | -579.4 | -7.9 | -140.3 | 886.2 | 489 | -29.6 |
| 71 | 414.8 | 4.8 | 243.9 | 374.3 | -248.9 | 21.5 |
| -46.9 | 581 | 91 | 143.8 | -18.5 | 6.9 | 366.3 |
| -46.3 | -131 | -63.6 | -299.8 | -5.5 | 618.5 | -252.7 |
| 10.3 | -167.5 | 57 | 388.9 | 558.9 | -93.5 | 230.9 |
| -78.4 | 497.5 | 67.5 | 328 | -683.5 | 77 | 271.8 |
| -99.1 | 242.7 | 33.1 | 173.2 | -164.9 | -193 | 134 |
| -21.5 | -423.1 | 33.6 | 485.6 | -45.5 | 41.3 | 135.9 |
| 106 | 380.8 | 94.2 | 291.3 | 586.9 | 605.2 | 377.1 |
| -162.5 | 240.2 | 16.7 | 661.2 | 163.5 | 428.3 | 67 |
| -27.4 | -86.5 | -42 | -181.2 | -855.2 | -303.9 | -166.8 |
| 25.1 | -11.6 | 107.4 | -690.3 | 34.7 | -283.5 | 430.5 |
| -51.2 | 49.5 | 30.9 | 267.9 | 340.2 | 359.4 | 125.2 |
| 0 | 461.8 | -70.1 | -128.7 | 494.1 | -570.9 | -277.8 |
| -64.1 | 12 | -4.6 | -291.9 | 546.6 | -223.4 | -17.4 |
| -77.4 | -95.4 | -8.5 | 27.6 | -21.8 | 2.3 | -33.6 |
| 91.2 | -44.4 | 14.3 | -273.4 | 650.2 | 261.8 | 58.3 |
| -178.3 | -548.9 | -54.5 | -643.1 | -101.4 | 112 | -216.1 |
| 52.4 | -849.8 | 8.2 | 560.7 | -1116.4 | 54.3 | 34.7 |
| 23.6 | -174.6 | 12.1 | 332 | -77.6 | 192.4 | 51.1 |
| 68.8 | 349.9 | 4.7 | -247.9 | -133.3 | 1158.6 | 19 |
| 6.1 | 420.5 | -73.1 | 71.9 | 96.7 | 378 | -292 |
| -40.3 | -25.1 | -22.9 | 450.9 | -469.1 | -375.2 | -89.9 |
| -22.5 | -200.4 | -0.2 | -167.2 | 516.3 | 132.5 | 0.9 |
| -47.2 | 370.9 | -21.4 | -371.1 | -991.2 | 126.7 | -85 |
| 170.1 | -365.8 | -87.9 | -146.8 | -70.4 | -111 | -349.4 |
| -10.2 | -257.1 | -29.8 | 32 | -6.2 | -119.3 | -117 |
| -35.7 | 411.1 | 11.1 | -106.8 | 241 | 366.8 | 47.1 |
| 18.2 | -389.6 | -1.5 | 304.7 | -183.7 | -211 | -3.7 |
| 64 | -380.6 | -81.6 | 245.9 | 567.9 | -78.9 | -323.7 |
| 27.7 | 225.6 | -22.5 | -267.4 | 232.7 | 801.2 | -88 |
| 49.8 | 407.9 | 23 | 599.6 | -433.7 | -296.8 | 94.5 |
| 84.8 | 437.5 | -33.4 | -21.3 | -659.6 | -282 | -133 |
| -91 | 107.9 | -34 | 180.6 | 80.6 | 96.7 | -133.8 |
| 71.2 | -81.6 | -46 | -97.3 | 1046.3 | 566.1 | -182 |
| 45.3 | -106.6 | 80.5 | 55.7 | -65.7 | -43.6 | 325 |
| -59.7 | 168.3 | -33 | -160.5 | -252.2 | -172.4 | -131.9 |
| -57.2 | 854.5 | -104.7 | -535.1 | -204.3 | 129.1 | -417.3 |
| -22.4 | -253.2 | 48.1 | -561.3 | -980.9 | 286.7 | 195.3 |
| -15.6 | 296.4 | -9.9 | -569.7 | -28.3 | 856.8 | -36.9 |
| -89 | -140.9 | -13.9 | -273 | -416.7 | -420.4 | -54.9 |
| 27.6 | 133.7 | 174 | 769.5 | 379.7 | 174.1 | 696.2 |
| -76.1 | 251.7 | -29.5 | -1068.5 | -59.8 | -215 | -115.8 |
| -27.1 | -427.9 | -27.3 | -226.2 | -689.1 | 238.6 | -107.6 |
| -73.6 | -103.3 | -91 | 348.7 | -208.9 | -113 | -363.5 |
| 75.7 | 1.3 | -104.8 | 86.5 | 322.2 | 382 | -417.5 |
| 66.7 | 755.5 | -40.5 | -295.6 | 86.1 | -803.1 | -159.8 |
| -81.6 | -448.9 | 71.4 | 302.2 | 772.6 | 454.8 | 285.9 |
| 0 | -131.2 | 37.4 | -132.3 | 302.5 | 523.9 | 149.9 |
| -10.2 | 70.5 | 18.2 | -193.7 | 460.8 | -467 | 75.8 |
| 50.7 | -126.5 | -5.4 | 88.4 | 417 | -623.1 | -19.1 |
| -38.1 | -181.6 | -19.6 | 343.1 | 502.4 | 34.5 | -75.9 |
| -14.7 | -524.4 | 47.8 | -165.2 | -19 | 407.7 | 193 |
| -81.9 | 91.2 | -10.9 | 532 | -189.8 | 7.9 | -41.1 |
| 42.8 | -450.1 | 16 | 392.1 | 529.5 | 236.2 | 65.9 |
| -4.2 | -459.1 | 60.4 | -19.8 | 264.7 | 205.2 | 243.4 |
| -35.8 | 362.4 | 58.8 | 1073.7 | 503.2 | 197.1 | 235.8 |
| 55.6 | -58.5 | 7.1 | 156.4 | 249.1 | 586.9 | 30.1 |
| 107.6 | 402.4 | -39.4 | 449.6 | 442.9 | 228.5 | -156.2 |

**Question Number – 7:**

Using a linear model, what is lower 90% confidence limit(one-sided) for the predicted value of y when x = 63.7?

**Answer:** 429.427031

**Reference: Template.xlsx/Regression/Copy the data to A10, put 63.7 to H41, 90% to H18 and take answer from H43 (Clear all the pre-existing data at first)**

|  |  |
| --- | --- |
| X | Y |
| 58.2 | 405.868 |
| 98.9 | 548.536 |
| 73.5 | 492.94 |
| 81.6 | 495.284 |
| 64.6 | 454.854 |
| 71.5 | 477.71 |
| 72.5 | 470.6 |
| 84 | 528.41 |
| 79.2 | 510.458 |
| 51.6 | 371.534 |
| 70.4 | 450.896 |
| 67 | 439.78 |
| 78.2 | 510.868 |
| 78.3 | 484.592 |
| 64 | 418.21 |
| 54.1 | 417.934 |
| 52.5 | 387.1 |
| 68.4 | 452.816 |
| 99.4 | 589.106 |
| 77.7 | 508.448 |
| 61.2 | 403.238 |

**Question Number – 8:**

Using a linear model, what is the coefficient of determination?

**Answer:** 0.586166035

**Reference: Template.xlsx/Regression/Copy the data to A10 and take answer from H9 (Clear all the pre-existing data at first)**