>>> main(30)

START:

----------Generation 1----------

Top 5 survive:

(5, 135, 2.551)

(5, 153, 2.0638)

(5, 117, 2.0638)

(5, 171, 0.7883)

(5, 99, 0.7883)

Bottom 5 are killed:

(5, 81, -0.7883)

(5, 9, -0.7883)

(5, 63, -2.0638)

(5, 27, -2.0638)

(5, 45, -2.551)

----------Generation 2----------

Top 5 survive:

(5.29, 127.37, 2.7548)

(5.09, 141.19, 2.5822)

(4.98, 131.53, 2.5121)

(4.87, 134.95, 2.4201)

(5.04, 146.53, 2.3849)

Bottom 5 are killed:

(5.05, 110.53, 1.7093)

(4.9, 110.22, 1.5892)

(5.46, 164.32, 1.5831)

(5.62, 178.2, 0.2024)

(4.33, 180, 0.0)

----------Generation 3----------

Top 5 survive:

(5.38, 130.53, 2.9176)

(5.4, 143.69, 2.8397)

(5.29, 124.27, 2.6576)

(5.28, 121.98, 2.556)

(5.23, 120.25, 2.4293)

Bottom 5 are killed:

(4.88, 144.53, 2.2968)

(4.7, 125.07, 2.12)

(4.72, 145.58, 2.12)

(5.44, 108.86, 1.8475)

(3.8, 172.73, 0.3699)

----------Generation 4----------

Top 5 survive:

(6.0, 130.54, 3.629)

(6.17, 120.73, 3.4125)

(5.63, 131.58, 3.2114)

(5.63, 139.48, 3.1949)

(5.27, 136.22, 2.8314)

Bottom 5 are killed:

(5.41, 124.16, 2.7753)

(5.13, 134.67, 2.6852)

(5.14, 124.55, 2.5185)

(5.33, 112.77, 2.069)

(4.3, 94.72, 0.3095)

----------Generation 5----------

Top 5 survive:

(6.43, 147.04, 3.8517)

(6.25, 123.92, 3.6915)

(5.94, 129.39, 3.5316)

(6.03, 124.08, 3.444)

(6.0, 122.9, 3.3506)

Bottom 5 are killed:

(5.73, 129.85, 3.2963)

(5.56, 128.79, 3.0806)

(5.73, 119.55, 2.8748)

(5.02, 154.38, 2.0052)

(4.92, 116.69, 1.9825)

----------Generation 6----------

Top 5 survive:

(6.84, 121.05, 4.2191)

(6.3, 141.6, 3.943)

(6.43, 146.05, 3.9089)

(6.47, 120.83, 3.7596)

(6.63, 116.68, 3.5991)

Bottom 5 are killed:

(6.21, 149.46, 3.4444)

(5.79, 129.08, 3.348)

(6.24, 116.33, 3.1589)

(6.05, 115.09, 2.8687)

(6.49, 100.1, 1.4841)

----------Generation 7----------

Top 5 survive:

(7.12, 132.29, 5.1498)

(6.86, 124.94, 4.509)

(6.66, 119.85, 3.9078)

(6.64, 119.18, 3.8302)

(7.98, 108.01, 3.8213)

Bottom 5 are killed:

(6.37, 148.76, 3.672)

(5.82, 141.32, 3.3726)

(5.76, 140.31, 3.3275)

(5.93, 152.92, 2.9088)

(5.73, 166.23, 1.5491)

----------Generation 8----------

Top 5 survive:

(7.47, 126.73, 5.4584)

(7.22, 128.65, 5.1891)

(6.93, 135.71, 4.899)

(6.86, 126.99, 4.6155)

(6.77, 142.24, 4.5283)

Bottom 5 are killed:

(6.74, 116.49, 3.7011)

(6.4, 118.55, 3.5093)

(6.38, 118.18, 3.4579)

(7.35, 103.3, 2.4683)

(6.22, 105.88, 2.078)

----------Generation 9----------

Top 5 survive:

(7.94, 120.03, 5.5745)

(7.44, 128.32, 5.4955)

(7.31, 130.0, 5.3698)

(7.47, 123.25, 5.2217)

(7.53, 121.86, 5.1878)

Bottom 5 are killed:

(8.22, 111.39, 4.6828)

(6.83, 141.3, 4.6455)

(7.11, 121.84, 4.6236)

(7.46, 114.74, 4.3169)

(6.23, 122.57, 3.5935)

----------Generation 10----------

Top 5 survive:

(9.4, 117.9, 7.4572)

(7.93, 138.9, 6.3575)

(7.72, 128.23, 5.9124)

(8.22, 118.82, 5.824)

(7.9, 121.69, 5.6933)

Bottom 5 are killed:

(7.66, 125.95, 5.691)

(7.45, 136.57, 5.655)

(6.85, 140.68, 4.6942)

(6.66, 130.98, 4.4816)

(6.18, 119.44, 3.3363)

----------Generation 11----------

Top 5 survive:

(9.6, 144.22, 8.9212)

(9.24, 119.62, 7.4864)

(9.06, 120.97, 7.3913)

(9.06, 118.06, 6.9537)

(7.58, 137.45, 5.8415)

Bottom 5 are killed:

(7.51, 134.53, 5.7543)

(7.3, 124.11, 5.0496)

(6.66, 143.07, 4.3477)

(9.75, 96.05, 2.0334)

(7.04, 95.38, 0.9442)

----------Generation 12----------

Top 5 survive:

(10.45, 133.92, 11.1352)

(10.4, 138.21, 10.9675)

(10.02, 129.9, 10.083)

(10.0, 144.14, 9.6891)

(9.81, 145.17, 9.2077)

Bottom 5 are killed:

(9.88, 147.33, 9.0522)

(8.66, 130.66, 7.565)

(8.22, 134.6, 6.8941)

(9.39, 109.29, 5.6107)

(6.21, 142.81, 3.7898)

----------Generation 13----------

Top 5 survive:

(10.92, 140.06, 11.9787)

(11.04, 126.78, 11.9284)

(9.94, 138.1, 10.023)

(9.95, 139.63, 9.9706)

(10.02, 127.12, 9.8598)

Bottom 5 are killed:

(11.0, 113.15, 8.9264)

(10.78, 156.58, 8.6498)

(9.2, 120.49, 7.5524)

(8.14, 145.42, 6.3189)

(8.05, 146.08, 6.1241)

----------Generation 14----------

Top 5 survive:

(12.07, 132.8, 14.822)

(12.32, 125.62, 14.6652)

(11.94, 131.69, 14.4503)

(11.71, 132.93, 13.9557)

(11.23, 136.7, 12.846)

Bottom 5 are killed:

(11.06, 140.32, 12.2674)

(11.25, 146.44, 11.8984)

(8.79, 143.63, 7.5291)

(10.04, 113.51, 7.5251)

(10.01, 158.17, 7.0588)

----------Generation 15----------

Top 5 survive:

(13.31, 144.76, 17.0382)

(12.55, 138.02, 15.9825)

(12.33, 136.6, 15.489)

(12.29, 132.36, 15.3473)

(13.04, 119.51, 14.876)

Bottom 5 are killed:

(11.84, 130.74, 14.1468)

(11.66, 138.63, 13.7618)

(10.65, 140.28, 11.3777)

(10.7, 123.85, 10.8089)

(11.75, 114.23, 10.5448)

----------Generation 16----------

Top 5 survive:

(15.49, 122.68, 22.2543)

(14.18, 124.11, 19.053)

(13.8, 126.68, 18.6189)

(13.12, 145.81, 16.329)

(13.43, 149.77, 16.0122)

Bottom 5 are killed:

(12.72, 143.2, 15.8383)

(12.42, 144.3, 14.9183)

(12.65, 149.78, 14.2035)

(11.5, 149.99, 11.6893)

(11.83, 155.55, 10.7613)

----------Generation 17----------

Top 5 survive:

(15.42, 126.64, 23.2371)

(15.7, 146.98, 22.9847)

(14.9, 131.76, 22.5094)

(14.9, 127.59, 21.9005)

(15.43, 121.31, 21.5728)

Bottom 5 are killed:

(13.91, 133.76, 19.7252)

(11.83, 135.9, 14.2735)

(11.02, 132.17, 12.3315)

(13.84, 109.24, 12.162)

(10.16, 118.6, 8.8539)

----------Generation 18----------

Top 5 survive:

(17.1, 132.97, 29.7629)

(19.03, 116.66, 29.6358)

(16.49, 143.82, 26.4423)

(15.88, 127.02, 24.7402)

(15.78, 121.59, 22.6757)

Bottom 5 are killed:

(16.9, 115.28, 22.5075)

(15.35, 122.56, 21.8117)

(14.3, 138.99, 20.6643)

(15.51, 156.17, 18.1441)

(12.77, 121.37, 14.792)

----------Generation 19----------

Top 5 survive:

(18.68, 131.49, 35.3394)

(19.15, 125.03, 35.1773)

(18.79, 144.83, 33.9268)

(18.69, 124.33, 33.2006)

(17.2, 134.15, 30.1745)

Bottom 5 are killed:

(16.72, 136.67, 28.4779)

(16.67, 130.9, 28.0661)

(18.88, 115.0, 27.8633)

(16.33, 128.51, 26.5158)

(11.87, 140.67, 14.0966)

----------Generation 20----------

Top 5 survive:

(20.72, 131.23, 43.4292)

(19.56, 127.08, 37.5577)

(18.55, 129.75, 34.5245)

(19.15, 120.78, 32.9046)

(18.22, 125.51, 32.0327)

Bottom 5 are killed:

(17.69, 124.45, 29.7913)

(16.57, 132.32, 27.8943)

(19.93, 104.08, 19.1281)

(18.72, 99.5, 11.642)

(16.24, 99.95, 9.1603)

----------Generation 21----------

Top 5 survive:

(21.22, 137.64, 45.7528)

(20.87, 134.52, 44.4383)

(20.66, 130.44, 43.0041)

(19.99, 125.27, 38.4462)

(19.25, 130.75, 37.3972)

Bottom 5 are killed:

(19.08, 135.88, 37.1301)

(19.12, 115.14, 28.693)

(16.06, 148.82, 23.3152)

(18.79, 97.99, 9.9183)

(16.48, 100.47, 9.9045)

----------Generation 22----------

Top 5 survive:

(22.53, 140.44, 50.865)

(22.07, 131.42, 49.315)

(22.77, 146.71, 48.5468)

(21.6, 138.45, 47.2634)

(21.9, 125.38, 46.2063)

Bottom 5 are killed:

(20.86, 140.44, 43.6039)

(18.86, 126.52, 34.7173)

(19.14, 117.18, 30.3798)

(15.26, 150.44, 20.3936)

(17.04, 109.14, 18.3552)

----------Generation 23----------

Top 5 survive:

(24.67, 134.66, 62.0986)

(24.78, 143.62, 59.8429)

(26.41, 156.52, 52.0182)

(22.8, 146.4, 48.9001)

(21.98, 141.22, 48.1406)

Bottom 5 are killed:

(21.47, 133.91, 47.0028)

(25.71, 158.51, 45.9832)

(20.24, 139.37, 41.3164)

(20.22, 125.58, 39.4841)

(17.86, 118.97, 27.585)

----------Generation 24----------

Top 5 survive:

(25.82, 136.66, 67.9136)

(26.43, 149.92, 61.8297)

(24.74, 128.69, 60.947)

(23.73, 135.63, 57.4466)

(23.63, 138.35, 56.5881)

Bottom 5 are killed:

(25.63, 118.59, 56.3307)

(26.94, 161.65, 44.2586)

(23.51, 155.42, 42.6688)

(23.98, 108.59, 35.4601)

(18.78, 148.39, 32.1286)

----------Generation 25----------

Top 5 survive:

(27.35, 132.55, 76.0499)

(26.84, 141.65, 71.5371)

(25.95, 139.44, 67.8909)

(25.66, 138.84, 66.5846)

(26.36, 120.98, 62.5804)

Bottom 5 are killed:

(27.33, 156.41, 55.9048)

(24.46, 152.87, 49.5529)

(22.73, 145.12, 49.4643)

(21.27, 133.23, 46.0765)

(21.22, 145.35, 42.9816)

----------Generation 26----------

Top 5 survive:

(28.66, 130.92, 82.9673)

(27.27, 136.31, 75.8036)

(26.91, 134.22, 73.8653)

(26.74, 131.21, 72.3244)

(27.44, 149.65, 67.0028)

Bottom 5 are killed:

(25.26, 128.36, 63.3679)

(24.13, 136.71, 59.3082)

(27.72, 159.24, 51.9752)

(22.57, 141.01, 50.8404)

(26.72, 102.27, 30.2579)

----------Generation 27----------

Top 5 survive:

(29.23, 133.44, 87.0537)

(29.37, 130.4, 86.8878)

(27.8, 136.09, 78.8041)

(27.12, 137.63, 74.7344)

(26.36, 132.13, 70.5475)

Bottom 5 are killed:

(25.17, 147.1, 58.9647)

(24.29, 118.79, 50.8211)

(24.09, 114.85, 45.163)

(22.13, 105.46, 25.6782)

(30, 180, 0.0)

----------Generation 28----------

Top 5 survive:

(29.85, 132.19, 90.4836)

(30, 128.36, 89.3809)

(30, 146.49, 84.5487)

(30, 122.54, 83.2865)

(28.72, 126.78, 80.7261)

Bottom 5 are killed:

(29.69, 119.49, 77.0848)

(29.75, 150.99, 76.606)

(27.58, 124.37, 72.3357)

(23.21, 133.6, 54.9042)

(24.64, 102.77, 26.7101)

----------Generation 29----------

Top 5 survive:

(30, 135.69, 91.8101)

(29.67, 137.7, 89.4288)

(29.46, 132.78, 88.2946)

(29.06, 128.4, 83.895)

(28.48, 135.54, 82.7517)

Bottom 5 are killed:

(27.53, 132.92, 77.1331)

(26.21, 132.49, 69.8295)

(26.82, 150.73, 62.6099)

(26.08, 117.27, 56.5316)

(23.23, 127.39, 53.1332)

----------Generation 30----------

Top 5 survive:

(30, 134.9, 91.8362)

(30, 136.29, 91.7436)

(30, 133.02, 91.6175)

(29.56, 131.09, 88.3334)

(28.95, 132.47, 85.1874)

Bottom 5 are killed:

(28.52, 131.84, 82.4946)

(30, 118.95, 77.7969)

(28.87, 117.38, 69.4628)

(27.41, 118.3, 64.0029)

(22.82, 105.01, 26.5851)

Fittest of each generation:

Generation 1: (5, 135, 2.551)

Generation 2: (5.29, 127.37, 2.7548)

Generation 3: (5.38, 130.53, 2.9176)

Generation 4: (6.0, 130.54, 3.629)

Generation 5: (6.43, 147.04, 3.8517)

Generation 6: (6.84, 121.05, 4.2191)

Generation 7: (7.12, 132.29, 5.1498)

Generation 8: (7.47, 126.73, 5.4584)

Generation 9: (7.94, 120.03, 5.5745)

Generation 10: (9.4, 117.9, 7.4572)

Generation 11: (9.6, 144.22, 8.9212)

Generation 12: (10.45, 133.92, 11.1352)

Generation 13: (10.92, 140.06, 11.9787)

Generation 14: (12.07, 132.8, 14.822)

Generation 15: (13.31, 144.76, 17.0382)

Generation 16: (15.49, 122.68, 22.2543)

Generation 17: (15.42, 126.64, 23.2371)

Generation 18: (17.1, 132.97, 29.7629)

Generation 19: (18.68, 131.49, 35.3394)

Generation 20: (20.72, 131.23, 43.4292)

Generation 21: (21.22, 137.64, 45.7528)

Generation 22: (22.53, 140.44, 50.865)

Generation 23: (24.67, 134.66, 62.0986)

Generation 24: (25.82, 136.66, 67.9136)

Generation 25: (27.35, 132.55, 76.0499)

Generation 26: (28.66, 130.92, 82.9673)

Generation 27: (29.23, 133.44, 87.0537)

Generation 28: (29.85, 132.19, 90.4836)

Generation 29: (30, 135.69, 91.8101)

Generation 30: (30, 134.9, 91.8362)