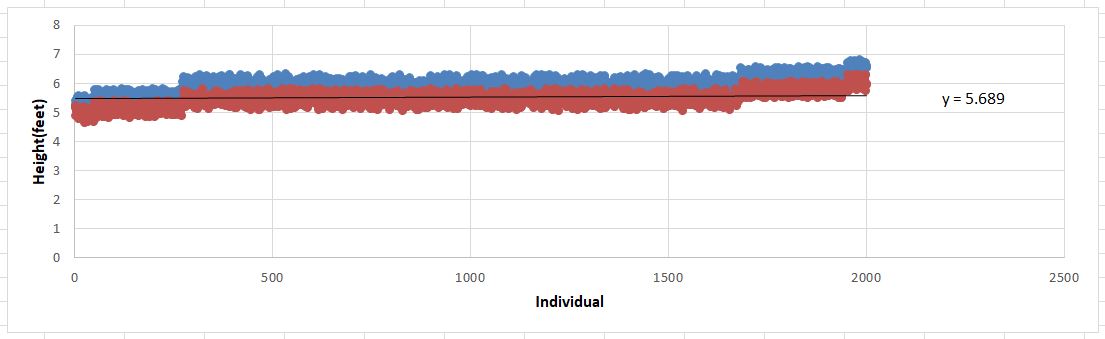
Code and data is located at the last few pages for this document.

**Scenario where only the first feature (height) is considered**

1. In the graph, red is female data, blue is male data. Both types of data are not generalized.



2. The separation/decision line function is y=5.689. This is the median between the average height of males and females.

3. The equation of the decision function is y=5.689 If the person's height is >5.689 then this person is considered male. If the person's height is <=5.689 then this person is considered female.

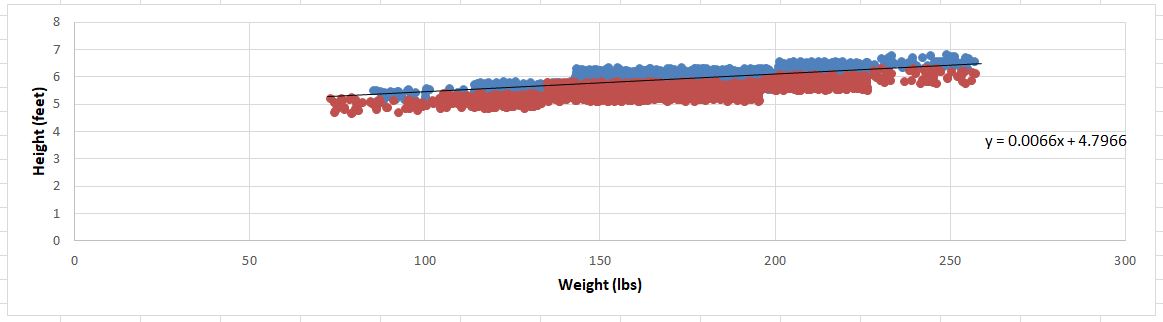
1. In class, all the biological neuron models have a set threshold, so in this case, our threshold would be 5.689 and so when our linear combination (in this case just the height considered) then the neuron would fire, else it will not fire.

4.

1. Error is (407+452)/4000=21.475%
2. Accuracy is (1548+1593)/4000=78.525%
3. True Positive Rate - (when person is determined to be male they are actually male) 1548/2000 = 77.4%
4. True Negative Rate - (when person is determined to be female they are actually female) 1593/2000 = 79.65%
5. False Positive Rate - (when person is determined to be male is actually female) 407/2000 = 20.35%
6. False Negative Rate - (when person is determined to be female is actually male) 452/2000 = 22.6%

**Scenario where both features (height and weight) are considered**

* 1. In the graph, red is female data, blue is male data. Both types of data are not generalized.



2. The separation/decision line function is height = 0.0066\*weight + 4.7966. We used the medium of max height between male height and female height while both male and female are in maximum weight, divided by the minimum height between male height and female height while both male and female are in minimum.

3. The equation of the decision function is height = 0.0066\*weight + 4.7966. If the person’s height is >0.0066\*weight + 4.7966, then this person is a male. If the person’s height is <= 0.0066\*weight + 4.7966, then this person is a female.

1. In class, all the biological neuron models have a set threshold, but in this case, we cannot put a set numeric weight as a deterministic factor and use that as the threshold because a human’s height and weight have certain correlation. A man with height over 6 feet is very unlikely to weigh less than 100 lbs, so we consider both height and weight as variable inputs.

4.

1. Error (21+1042)/4000=26.575%
2. Accuracy (1042+1979) / 4000 = 75.525%
3. True Positive Rate - (when person is determined to be male they are actually male) 1042/2000 = 52.1%
4. True Negative Rate - (when person is determined to be female they are actually female) 1979/2000 = 98.95%
5. False Positive Rate - (when person is determined to be male is actually female) 21/2000 = 1.05%
6. False Negative Rate - (when person is determined to be female is actually male) 958/2000 = 47.9%

Part 2.

Truth table without memory element for reference.

|  |  |  |
| --- | --- | --- |
| A | B | OUT |
| 0 | 0 | 0 |
| 0 | 1 | 0 |
| 1 | 0 | 1 |

1. Memory is not consider random 1’s or 0’s, its pre-assigned

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A (WRITE 1) +1 | B (WRITE 0) -2 | C(MEMORY)+1 | T=0.5 | OUT |
| 0 | 0 | 0 | 0<T | 0 |
| 0 | 0 | 1 | 1>T | 1 |
| 0 | 1 | 0 | -2<T | 0 |
| 0 | 1 | 1 | -1<T | 0 |
| 1 | 0 | 0 | 1>T | 1 |
| 1 | 0 | 1 | 2>T | 1 |

1. The range of possible values for threshold in cases with previously stored zero or one are between 0 (non-inclusive) and 2 (inclusive). 0 < T 2.
2. The case we cannot consider is writing 1 and 0 at the same time, so a truth table with values 1 for both A and B as shown below.

|  |  |  |
| --- | --- | --- |
| A (WRITE 1) | B (WRITE B) | C(MEMORY) |
| 1 | 1 | 0 |
| 1 | 1 | 1 |

The equation would be (A+C)

Code for generating random height and weight data:

Note that each time the code is run, data generated will always vary slightly, since data is randomly generated.

/\*Team FUL

\* Memeber, Aplomb Huang, Aaron Kim, Paige Fuller

\*CMSC 409 PROJECT01 INSTRUCTOR DR. Manic

\* This program will randomly generate heights and weights for both Male and Female

\*and writes that to the txt file.

\*/

import java.io.\*;

import java.math.\*;

import java.util.Random;

public class Project01

{

public static void main(String[] args) throws IOException

{

File f = new File("data.txt");

double height;

double weight;

PrintWriter writer = new PrintWriter(new FileWriter(f));

for(int i = 0; i <2000; i++)

{

//2 std. dev. left

if (i<50)

{

Random random = new Random();

height = random.nextInt(2) + 60;

height /= 12;

height += (random.nextDouble())/2;

weight = random.nextInt(28) + 85;

weight += (random.nextDouble())/2; //Water Weight

//System.out.println (height + ", " + weight + ", 0");

writer.printf(height + ", " + weight + ", 0 \n");

}

// 1 std. dev. left

else if (i <270)

{

Random random = new Random();

height = random.nextInt(2) + 63;

height /= 12;

height += (random.nextDouble())/2;

weight = random.nextInt(28) + 114;

weight += (random.nextDouble())/2; //Water Weight

//System.out.println (height + ", " + weight + ", 0");

writer.printf(height + ", " + weight + ", 0 \n");

}

//std. dev. center

else if (i<1680){

Random random = new Random();

height = random.nextInt(5) + 66;

height /= 12;

height += (random.nextDouble())/2;

weight = random.nextInt(57) + 143;

weight += (random.nextDouble())/2; //Water Weight

//System.out.println (height + ", " + weight + ", 0");

writer.printf(height + ", " + weight + ", 0 \n");

}

// 1 std. dev. right

else if (i<1950)

{

Random random = new Random();

height = random.nextInt(2) + 72;

height /= 12;

height += (random.nextDouble())/2;

weight = random.nextInt(28) + 201;

weight += (random.nextDouble())/2; //Water Weight

//System.out.println (height + ", " + weight + ", 0");

writer.printf(height + ", " + weight + ", 0 \n");

}

//2 std. dev. right

else

{

Random random = new Random();

height = random.nextInt(2) + 75;

height /= 12;

height += (random.nextDouble())/2;

weight = random.nextInt(28) + 230;

weight += (random.nextDouble())/2; //Water Weight

//System.out.println (height + ", " + weight + ", 0");

writer.printf(height + ", " + weight + ", 0 \n");

}

}

writer.printf(" \n");

//Female Statistics

for(int i = 0; i <2000; i++)

{

//2 std. dev. left

if(i<50)

{

Random random = new Random();

height = random.nextInt(2) + 56;

height /= 12;

height += (random.nextDouble())/2;

weight = random.nextInt(30) + 73;

weight += (random.nextDouble())/2; //Water Weight

//System.out.println (height + ", " + weight + ", 1");

writer.printf(height + ", " + weight + ", 1 \n");

}

// 1 std. dev. left

else if (i <270)

{

Random random = new Random();

height = random.nextInt(2) + 58;

height /= 12;

height += (random.nextDouble())/2;

weight = random.nextInt(30) + 104;

weight += (random.nextDouble())/2; //Water Weight

//System.out.println (height + ", " + weight + ", 1");

writer.printf(height + ", " + weight + ", 1 \n");

}

//std. dev. center

else if (i<1680)

{

Random random = new Random();

height = random.nextInt(4) + 61;

height /= 12;

height += (random.nextDouble())/2;

weight = random.nextInt(61) + 135;

weight += (random.nextDouble())/2; //Water Weight

//System.out.println (height + ", " + weight + ", 1");

writer.printf(height + ", " + weight + ", 1 \n");

}

// 1 std. dev. right

else if (i<1950)

{

Random random = new Random();

height = random.nextInt(2) + 66;

height /= 12;

height += (random.nextDouble())/2;

weight = random.nextInt(30) + 197;

weight += (random.nextDouble())/2; //Water Weight

//System.out.println (height + ", " + weight + ", 1");

writer.printf(height + ", " + weight + ", 1 \n");

}

//2 std. dev. right

else

{

Random random = new Random();

height = random.nextInt(2) + 69;

height /= 12;

height += (random.nextDouble())/2;

weight = random.nextInt(30) + 228;

weight += (random.nextDouble())/2; //Water Weight

// System.out.println (height + ", " + weight + ", 1");

writer.printf(height + ", " + weight + ", 1 \n");

}

}

writer.close();

}

}

Data used to plot the graph:

|  |  |  |
| --- | --- | --- |
| male height(ft) | male weight(lbs) |  |
| 5.41761837 | 100.3054344 | 0 |
| 5.173218241 | 91.4898486 | 0 |
| 5.270727183 | 110.4590222 | 0 |
| 5.453144418 | 87.39718704 | 0 |
| 5.43607277 | 110.2504075 | 0 |
| 5.509462927 | 95.07777836 | 0 |
| 5.546387641 | 111.0420253 | 0 |
| 5.472151203 | 92.45141285 | 0 |
| 5.393886762 | 89.15794319 | 0 |
| 5.581518963 | 107.0866371 | 0 |
| 5.091965299 | 86.10936972 | 0 |
| 5.493096462 | 86.2569203 | 0 |
| 5.1824654 | 94.27194384 | 0 |
| 5.439160012 | 90.39771958 | 0 |
| 5.451671591 | 92.2976141 | 0 |
| 5.066191462 | 102.3882067 | 0 |
| 5.516485858 | 95.18470725 | 0 |
| 5.421773283 | 109.3493815 | 0 |
| 5.311260121 | 93.06736927 | 0 |
| 5.55368256 | 95.26817076 | 0 |
| 5.131057715 | 97.22797394 | 0 |
| 5.169805379 | 100.2073296 | 0 |
| 5.423097016 | 97.38676898 | 0 |
| 5.578404215 | 100.4233208 | 0 |
| 5.418760131 | 91.11145438 | 0 |
| 5.26627063 | 96.43498682 | 0 |
| 5.305931299 | 96.06316102 | 0 |
| 5.057543519 | 99.38628924 | 0 |
| 5.491203271 | 85.31006361 | 0 |
| 5.160281811 | 107.1159731 | 0 |
| 5.179326534 | 112.4015512 | 0 |
| 5.089205225 | 107.2648375 | 0 |
| 5.131715502 | 88.26479542 | 0 |
| 5.160174256 | 106.2874408 | 0 |
| 5.29490053 | 100.1513393 | 0 |
| 5.435049043 | 111.1520074 | 0 |
| 5.418991729 | 88.49954339 | 0 |
| 5.21186303 | 107.4151512 | 0 |
| 5.340086155 | 93.3952631 | 0 |
| 5.126521692 | 107.3707203 | 0 |
| 5.420901321 | 87.20067146 | 0 |
| 5.53560808 | 101.3653283 | 0 |
| 5.136714836 | 106.0302499 | 0 |
| 5.112739963 | 87.22921494 | 0 |
| 5.282068632 | 91.47284246 | 0 |
| 5.226338998 | 104.2620182 | 0 |
| 5.461626448 | 90.24188089 | 0 |
| 5.272815531 | 90.02974445 | 0 |
| 5.450619918 | 106.2962222 | 0 |
| 5.241482766 | 105.0251901 | 0 |
| 5.795604269 | 138.3825697 | 0 |
| 5.725534648 | 125.0085477 | 0 |
| 5.688863478 | 118.0450516 | 0 |
| 5.797123544 | 124.0811304 | 0 |
| 5.566479436 | 141.3013691 | 0 |
| 5.381997889 | 121.1780483 | 0 |
| 5.519288551 | 124.381612 | 0 |
| 5.728167576 | 132.423242 | 0 |
| 5.466653185 | 123.3796652 | 0 |
| 5.796691019 | 116.0142046 | 0 |
| 5.667309147 | 133.4821335 | 0 |
| 5.464730459 | 116.0366286 | 0 |
| 5.580648263 | 127.2385385 | 0 |
| 5.371485499 | 133.1430113 | 0 |
| 5.536925268 | 137.2678754 | 0 |
| 5.705809666 | 118.4344629 | 0 |
| 5.626129896 | 124.0039889 | 0 |
| 5.535618215 | 129.2271766 | 0 |
| 5.254810078 | 132.2342833 | 0 |
| 5.700962625 | 140.2234486 | 0 |
| 5.489736242 | 122.090297 | 0 |
| 5.468295338 | 133.0041628 | 0 |
| 5.527961104 | 135.4083946 | 0 |
| 5.73185691 | 134.3863516 | 0 |
| 5.502124582 | 132.4507464 | 0 |
| 5.645915663 | 127.4234823 | 0 |
| 5.437241973 | 131.3528801 | 0 |
| 5.34389542 | 122.1058996 | 0 |
| 5.334580082 | 129.3751721 | 0 |
| 5.778769505 | 117.3517559 | 0 |
| 5.697628481 | 119.4361452 | 0 |
| 5.715645197 | 126.0286799 | 0 |
| 5.626748132 | 132.2485817 | 0 |
| 5.623831433 | 128.1228919 | 0 |
| 5.474676401 | 119.4628434 | 0 |
| 5.583806647 | 129.1127618 | 0 |
| 5.277796533 | 114.3439512 | 0 |
| 5.698657701 | 115.0349401 | 0 |
| 5.748817759 | 128.0987336 | 0 |
| 5.549918731 | 124.2056286 | 0 |
| 5.376182542 | 114.2184744 | 0 |
| 5.50378439 | 137.0041658 | 0 |
| 5.655166007 | 119.1158521 | 0 |
| 5.432844307 | 118.2800569 | 0 |
| 5.570161814 | 124.0697622 | 0 |
| 5.499735347 | 129.2723177 | 0 |
| 5.345425313 | 129.0992121 | 0 |
| 5.69013476 | 127.1396146 | 0 |
| 5.808141664 | 130.1047843 | 0 |
| 5.657122195 | 115.4331089 | 0 |
| 5.361417681 | 131.4840195 | 0 |
| 5.255422852 | 116.2517797 | 0 |
| 5.721205226 | 116.4400345 | 0 |
| 5.344870283 | 133.0911044 | 0 |
| 5.741354571 | 137.0901754 | 0 |
| 5.639639945 | 125.009455 | 0 |
| 5.550892862 | 139.0096987 | 0 |
| 5.700317682 | 124.0857973 | 0 |
| 5.67485986 | 140.391584 | 0 |
| 5.272992243 | 120.1330814 | 0 |
| 5.292554612 | 137.3444092 | 0 |
| 5.706047212 | 123.4693738 | 0 |
| 5.373515805 | 119.2161235 | 0 |
| 5.5018459 | 125.0059467 | 0 |
| 5.728178438 | 132.0846895 | 0 |
| 5.721904757 | 118.2225866 | 0 |
| 5.270917171 | 132.3739633 | 0 |
| 5.813436636 | 120.4386018 | 0 |
| 5.589499125 | 121.4318026 | 0 |
| 5.582959021 | 141.3370999 | 0 |
| 5.74825547 | 138.4736018 | 0 |
| 5.368387146 | 123.4960471 | 0 |
| 5.779000378 | 124.1754088 | 0 |
| 5.584803709 | 135.4079187 | 0 |
| 5.703074539 | 119.0185138 | 0 |
| 5.57584954 | 128.1452179 | 0 |
| 5.513193397 | 139.1197806 | 0 |
| 5.716082672 | 136.2615438 | 0 |
| 5.499568453 | 134.1140932 | 0 |
| 5.645095046 | 140.3015871 | 0 |
| 5.478468477 | 132.0564328 | 0 |
| 5.802787913 | 118.29518 | 0 |
| 5.635872782 | 127.0365136 | 0 |
| 5.34953396 | 135.2376029 | 0 |
| 5.778983634 | 133.0750809 | 0 |
| 5.297700172 | 139.08675 | 0 |
| 5.30914304 | 137.2653294 | 0 |
| 5.735078685 | 119.3906591 | 0 |
| 5.587677122 | 128.1832906 | 0 |
| 5.446040732 | 116.0523764 | 0 |
| 5.535354 | 117.103741 | 0 |
| 5.752763085 | 123.0149022 | 0 |
| 5.661146151 | 139.0000104 | 0 |
| 5.457382631 | 130.025529 | 0 |
| 5.406995977 | 119.4407269 | 0 |
| 5.379516613 | 138.1965579 | 0 |
| 5.702464068 | 140.1511669 | 0 |
| 5.679551765 | 129.2360016 | 0 |
| 5.397020901 | 120.4303642 | 0 |
| 5.406273698 | 122.0543174 | 0 |
| 5.703481833 | 136.3199699 | 0 |
| 5.461092721 | 133.4751401 | 0 |
| 5.63119318 | 136.4609363 | 0 |
| 5.442360382 | 131.2830821 | 0 |
| 5.565449696 | 122.3051903 | 0 |
| 5.661307231 | 130.1281243 | 0 |
| 5.363286608 | 117.4309994 | 0 |
| 5.560510389 | 122.1071126 | 0 |
| 5.507528182 | 134.2210127 | 0 |
| 5.751778185 | 115.4014131 | 0 |
| 5.601164555 | 132.0930711 | 0 |
| 5.649096229 | 136.3896378 | 0 |
| 5.559874207 | 121.3315415 | 0 |
| 5.51279138 | 129.4334724 | 0 |
| 5.503970705 | 115.1541744 | 0 |
| 5.446820819 | 123.2464468 | 0 |
| 5.364630152 | 124.1346186 | 0 |
| 5.760628224 | 115.135264 | 0 |
| 5.453929472 | 134.2179398 | 0 |
| 5.476436808 | 139.4271269 | 0 |
| 5.314102918 | 140.2790242 | 0 |
| 5.797255263 | 138.0486437 | 0 |
| 5.710424546 | 120.4314236 | 0 |
| 5.293962264 | 131.3711428 | 0 |
| 5.51299035 | 132.0221755 | 0 |
| 5.433527937 | 126.3123801 | 0 |
| 5.360429253 | 116.161019 | 0 |
| 5.359291939 | 129.0025905 | 0 |
| 5.389617319 | 123.1613981 | 0 |
| 5.49162717 | 130.4704599 | 0 |
| 5.386047407 | 118.3303988 | 0 |
| 5.493900267 | 116.4073829 | 0 |
| 5.745902917 | 138.0558345 | 0 |
| 5.681034515 | 114.4312955 | 0 |
| 5.395067622 | 118.2664458 | 0 |
| 5.560299536 | 125.3489518 | 0 |
| 5.512784445 | 129.4526347 | 0 |
| 5.4766696 | 114.0592286 | 0 |
| 5.277322027 | 135.3821031 | 0 |
| 5.71822411 | 121.015477 | 0 |
| 5.481550107 | 139.1551826 | 0 |
| 5.709105116 | 134.2047098 | 0 |
| 5.302982755 | 139.1752431 | 0 |
| 5.358863762 | 136.0244766 | 0 |
| 5.500815519 | 138.0199731 | 0 |
| 5.81801452 | 141.4655436 | 0 |
| 5.731665151 | 134.3704338 | 0 |
| 5.36331466 | 123.3303722 | 0 |
| 5.637705606 | 133.472919 | 0 |
| 5.617402055 | 140.1249784 | 0 |
| 5.735035588 | 114.1846226 | 0 |
| 5.54010332 | 117.202389 | 0 |
| 5.250077755 | 134.3496071 | 0 |
| 5.701150209 | 122.3090241 | 0 |
| 5.785709383 | 141.2719279 | 0 |
| 5.693294717 | 132.0095642 | 0 |
| 5.369787557 | 114.0915974 | 0 |
| 5.681546669 | 139.0693954 | 0 |
| 5.646668764 | 118.281334 | 0 |
| 5.702029776 | 137.129992 | 0 |
| 5.516894965 | 131.2373865 | 0 |
| 5.703980585 | 136.1229369 | 0 |
| 5.519759168 | 114.0858398 | 0 |
| 5.494088081 | 139.2717537 | 0 |
| 5.49064183 | 129.2811999 | 0 |
| 5.700723518 | 120.1687583 | 0 |
| 5.633528048 | 131.4291273 | 0 |
| 5.464564323 | 120.4367005 | 0 |
| 5.414391831 | 135.053585 | 0 |
| 5.466761975 | 121.4823179 | 0 |
| 5.829956865 | 122.3697463 | 0 |
| 5.49909277 | 140.1138995 | 0 |
| 5.467779953 | 126.137004 | 0 |
| 5.333610401 | 124.1980462 | 0 |
| 5.348660981 | 135.2072889 | 0 |
| 5.80546308 | 136.3082003 | 0 |
| 5.386649168 | 133.4526138 | 0 |
| 5.433304362 | 130.4813895 | 0 |
| 5.58127301 | 119.260324 | 0 |
| 5.522177617 | 133.2093048 | 0 |
| 5.665497502 | 125.3481245 | 0 |
| 5.73253728 | 136.3399655 | 0 |
| 5.436508254 | 120.3681513 | 0 |
| 5.310516765 | 129.329093 | 0 |
| 5.680443627 | 132.4073382 | 0 |
| 5.556846166 | 118.3939367 | 0 |
| 5.720719984 | 117.0714254 | 0 |
| 5.569051072 | 129.4543006 | 0 |
| 5.698603927 | 120.3748391 | 0 |
| 5.394397491 | 119.2748842 | 0 |
| 5.617146052 | 121.4886356 | 0 |
| 5.52341615 | 129.1355885 | 0 |
| 5.449376492 | 115.4476959 | 0 |
| 5.269142562 | 131.2520248 | 0 |
| 5.642423994 | 139.3891017 | 0 |
| 5.570086212 | 133.3449525 | 0 |
| 5.576526653 | 122.2270045 | 0 |
| 5.715735335 | 133.1688102 | 0 |
| 5.47280667 | 127.0543352 | 0 |
| 5.377879577 | 130.4055456 | 0 |
| 5.518300145 | 127.2154973 | 0 |
| 5.513005269 | 123.2520397 | 0 |
| 5.651951558 | 137.4127774 | 0 |
| 5.619076415 | 125.2312539 | 0 |
| 5.423793103 | 129.4123792 | 0 |
| 5.376487711 | 137.163414 | 0 |
| 5.725054631 | 125.2924281 | 0 |
| 5.36358241 | 120.3914942 | 0 |
| 5.543862861 | 140.3718993 | 0 |
| 5.742324831 | 128.3512753 | 0 |
| 5.319058205 | 137.2450919 | 0 |
| 5.525372484 | 115.0486024 | 0 |
| 5.517053025 | 123.4167293 | 0 |
| 5.76312671 | 135.2693907 | 0 |
| 5.649660704 | 135.3146161 | 0 |
| 5.712773412 | 115.3600124 | 0 |
| 5.828264084 | 126.001681 | 0 |
| 5.359904378 | 135.435761 | 0 |
| 5.669766475 | 121.4076441 | 0 |
| 5.465120819 | 139.4948128 | 0 |
| 5.741745789 | 198.0664177 | 0 |
| 6.057245324 | 149.0574014 | 0 |
| 5.603668397 | 198.3168358 | 0 |
| 5.950975606 | 143.0182801 | 0 |
| 5.758647232 | 183.2461448 | 0 |
| 6.249608087 | 197.3253313 | 0 |
| 5.925836061 | 197.123291 | 0 |
| 5.82981654 | 158.3468216 | 0 |
| 5.737095305 | 170.4005823 | 0 |
| 6.028187585 | 175.2755056 | 0 |
| 5.881325165 | 171.0526023 | 0 |
| 5.847280794 | 154.4565411 | 0 |
| 6.030898794 | 172.4735867 | 0 |
| 5.959179865 | 169.142811 | 0 |
| 6.033071144 | 151.0537514 | 0 |
| 6.210465304 | 179.3446328 | 0 |
| 6.1535276 | 190.2607366 | 0 |
| 5.787208482 | 143.3698129 | 0 |
| 5.612775584 | 177.3830574 | 0 |
| 6.16664962 | 171.2945383 | 0 |
| 5.693990057 | 155.3381629 | 0 |
| 6.012884322 | 183.0441717 | 0 |
| 5.913907948 | 164.1714282 | 0 |
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| female height(ft) | female weight(lbs) |  |
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| 5.037051715 | 81.39439788 | 1 |
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| 5.0882962 | 97.42957313 | 1 |
| 4.867441686 | 89.21559389 | 1 |
| 4.93390031 | 95.05418684 | 1 |
| 4.799236007 | 86.27758899 | 1 |
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| 5.141040287 | 102.2338376 | 1 |
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