CSE 6363 - Homework 1 Data Generation

* required field

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Question 1 b) Data:

1.9032693796595
0.70748397308042
2.5274777112307
1.8876480122504
1.1946099486865

Question 1 c) Prior Parameters:
$\alpha = 4$
$\beta = 9$

Question 2 a) and 3 a) Training Data:

((1.7909160609, 79.950011072218, 24), M)
((1.7324455387264, 73.145317115303, 29), W)
((1.5883255219258, 62.926534146885, 23), W)
((1.7425944161511, 66.267351490031, 24), W)
((1.7390430067456, 72.794406608789, 29), M)
((1.6660238290245, 75.667075443619, 28), M)
((1.8382768111335, 84.207830926268, 33), M)
((1.5322685153623, 64.744560088788, 30), M)
((1.7283180131558, 66.025304345285, 28), W)
((1.6986161182435, 79.759104761601, 34), M)
((1.7177779153213, 61.314561584792, 30), W)
((1.7411064277303, 64.613712769722, 30), W)
((1.7549172585873, 75.211566191515, 26), W)
((1.6201538763144, 70.846985574686, 35), W)

Question 2 a) and 3 a) Test Data:

(1.7329490572261, 74.206131130569, 33)
(1.9198484030958, 73.506180941258, 28)
(1.6261736538705, 59.749327145302, 34)
(1.8718043672447, 75.49365274765, 37)

Question 2 c), 2 d), 3 c), 3 d) Program Data:

((1.5966642478334, 73.410328680987, 26), W)
((1.6436307852306, 75.527354914058, 29), W)
((1.7032862002253, 82.304592446825, 25), M)
((1.8787096362, 84.65332917169, 24), W)
((1.6507929775232, 75.343433762284, 25), W)
((1.6834526495624, 84.544312488727, 24), W)
((1.763301200292, 71.366550148026, 28), W)
((1.7941807144059, 86.19414335342, 26), W)
((1.7192341061476, 79.500961113823, 24), M)
((1.6910155041154, 79.872948113427, 18), W)
((1.8987007346335, 79.043953253472, 25), M)
((1.6310336907689, 73.571407775184, 28), M)
((1.6709349348522, 88.28217444207, 19), M)
((1.7718703237431, 93.66933171837, 28), M)
((1.731653895724, 76.86251949046, 24), W)
((1.7052319650484, 80.22892853352, 30), W)
((1.8531869399863, 80.563071556119, 29), W)
((1.7360224058588, 82.458391501723, 24), M)
((1.8336878458015, 85.510761706495, 26), W)
((1.645399241747, 86.255799626988, 26), W)
((1.8157194648058, 70.068127504375, 29), W)
((1.6801064125266, 76.978142440839, 19), W)
((1.7092487657716, 81.654779369797, 26), W)
((1.6583614765457, 79.197852517453, 28), W)
((1.7453186587034, 70.990279854565, 26), W)
((1.6671299962134, 78.976028603928, 30), W)
((1.6280440247473, 76.304309616198, 32), M)
((1.7257115845192, 74.515924995268, 34), W)
((1.8083993517295, 83.286180563501, 26), W)
((1.8056444510129, 89.519263585935, 26), M)
((1.9500661855084, 86.760636621022, 21), W)
((1.7739946279529, 64.875330313363, 30), W)
((1.744701286374, 74.303377900007, 22), M)
((1.6609720779601, 80.281577387243, 27), W)
((1.8083437368485, 77.397829790416, 30), W)
((1.7433968211204, 81.397781263405, 23), M)
((1.5469324411625, 71.950482287397, 22), W)
((1.6412100851122, 87.551117603707, 24), W)
((1.7989363265894, 85.818663200951, 21), M)
((1.8134152511027, 74.409411066382, 26), W)
((1.8790485967329, 73.927229015923, 21), W)
((1.7510916222719, 81.493346469439, 26), M)
((1.6972215533393, 75.01854988088, 19), W)
((1.6604414692701, 78.901754105497, 21), W)
((1.5204054854525, 65.943661938798, 26), W)
((1.9220699256876, 77.903858949965, 33), W)
((1.7361087990804, 82.19254715741, 22), M)
((1.7943797061317, 86.74861666711, 28), M)
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((1.6379758380691, 77.039124684692, 22), W)

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((1.6793378016932, 87.632655256859, 32), M)
((1.8531894430162, 80.615096793438, 26), M)
((1.8382417895302, 92.006543405468, 25), M)
((1.6287703523791, 82.353357894952, 27), W)
((1.8130893543112, 80.596202500079, 33), M)
((1.8176146483763, 84.367697005145, 27), M)
((1.5614272167685, 74.168344198234, 25), W)
((1.9199790285185, 91.561464730103, 31), M)
((1.7358927181386, 77.576970778782, 29), W)
((1.7404617147787, 78.954319795618, 21), M)
((1.7142146393987, 73.765194694898, 27), W)
((1.7765082257384, 77.5631432498, 31), M)
((1.8315664331414, 79.765188735115, 25), W)
((1.6952885682819, 85.082240102106, 30), M)
((1.7257047351424, 78.753085279283, 22), W)
((1.7778583874701, 74.608659351822, 31), W)
((1.7600501832407, 87.551840099121, 27), W)
((1.6651010246491, 77.622559130706, 26), W)
((1.8000531028305, 86.352206728012, 25), M)
((1.6814735851849, 78.423798741997, 22), W)
((1.6471072767297, 75.967333461247, 23), W)
((1.7007036231226, 81.9859102434, 23), W)
((1.8068843604832, 75.815150889609, 26), W)
((1.7789603134066, 79.800805834606, 32), W)
((1.6387728007006, 75.092228208188, 23), W)
((1.6568572113812, 81.363990233656, 23), W)
((1.839242453962, 79.365529879539, 25), M)
((1.7119536449572, 81.209961629486, 25), M)
((1.6726451268473, 74.203150439129, 22), M)
((1.8290426889013, 91.744061513151, 22), M)
((1.7804148983418, 81.215025994587, 27), M)
((1.8969108334283, 90.526107376357, 25), M)
((1.7103337061074, 77.989611328776, 25), M)
((1.8812591854133, 86.38221592531, 25), M)
((1.7360701423031, 89.927349897998, 21), M)
((1.7799396860298, 80.258579751819, 24), M)
((1.7991947100163, 76.13849754338, 25), W)
((1.5921444428947, 68.819206078323, 22), W)
((1.6421608434581, 88.38350434351, 26), M)
((1.7665008228622, 79.375516044808, 28), M)
((1.7463099023971, 80.024888031269, 20), W)
((1.68213534394, 79.020798043381, 30), W)
((1.934422045114, 94.046417176503, 31), M)
((1.6944999655744, 85.234467000762, 20), W)
((1.7754845761794, 86.216934298829, 33), M)
((1.7724694088993, 83.734761396908, 25), M)
((1.9374245531194, 81.917110412302, 31), M)
((1.8040770139587, 80.128015377236, 21), M)
((1.7672170761699, 87.088457596191, 25), M)
((1.7535620787903, 80.061002150177, 22), M)
((1.8996845985464, 88.741121582431, 28), M)
((1.7738065559393, 83.974654622923, 18), M)
((1.8882926497204, 81.765424154502, 27), M)

((1.6507790582301, 71.821589164293, 25), M)
((1.861531050389, 84.200641104159, 27), M)
((1.9155620819245, 97.325182029561, 33), M)
((1.8162556698308, 99.767940215912, 24), M)
((1.8808333671714, 83.980037179326, 30), M)
((1.6586754900608, 88.274914551761, 26), M)
((1.841220943939, 88.83367027789, 29), M)
((1.7928320304561, 89.711388290239, 31), M)
((1.8978791753573, 91.26308753221, 27), M)
((1.8270186564443, 81.663604487821, 28), M)
((1.9177608405088, 87.972744033373, 23), M)
((1.9237273050193, 87.035504249351, 27), M)
((1.7088160855736, 86.75638977467, 28), M)
((1.5627623577015, 72.408042972669, 26), M)
((1.7780516859886, 81.674260605737, 27), M)
((1.7978253065044, 86.357898844873, 28), M)