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1 C:\Users\Julia\AppData\Local\Programs\Python\Python38
-32\python.exe C:/CS363_AI/
CS363_Artificial_Intelligence_Repo/HW2/hw2.py
2 Console output is saving to: C:\CS363_AI\
CS363_Artificial_Intelligence_Repo\HW2
3 filename hw2dataset_10.txt
4 Provided
5 P(Gender=0)  P(Weight=0|Gender=0)  P(Weight=0|Gender
=1)  P(Height=0|Gender=0)  P(Height=0|Gender=1)
6           0.7          0.8
7           0.4          0.7          0.3
8 total iterations: 5
8 -----Gender Table
-----
9 P(Gender=0)  P(Gender=1)
10      0.726477    0.273523
11
12
13
14
15 -----Weight|Gender
Table-----
16 P(Weight=0|Gender=0)  P(Weight=1|Gender=0)  P(Weight
=0|Gender=1)  P(Weight=1|Gender=1)
17           0.862349          0.137651
           0.634399          0.365601
18
19
20
21
22 -----Height|Gender
Table-----
23 P(Height=0|Gender=0)  P(Height=1|Gender=0)  P(Height
=0|Gender=1)  P(Height=1|Gender=1)
24           0.688252          0.311748
           4.480958e-07        1.0
25
26
27
28
29 Test Case #1
30 P(Gender=0)  P(Weight=0|Gender=0)  P(Weight=0|Gender
=1)  P(Height=0|Gender=0)  P(Height=0|Gender=1)
31      0.750369          0.849669          0.

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31 998049          0.983888          0.666229
32 total iterations: 5
33 -----
34 P(Gender=0)  P(Gender=1)
35      0.726469    0.273531
36
37
38
39
40 -----
41 P(Weight=0|Gender=0)  P(Weight=1|Gender=0)  P(Weight
=0|Gender=1)  P(Weight=1|Gender=1)
42          0.862348          0.137652
43          0.634411          0.365589
44
45
46
47 -----
48 P(Height=0|Gender=0)  P(Height=1|Gender=0)  P(Height
=0|Gender=1)  P(Height=1|Gender=1)
49          0.68826           0.31174
50          0.000001          0.999999
51
52
53
54 Test Case #2
55 P(Gender=0)  P(Weight=0|Gender=0)  P(Weight=0|Gender
=1)  P(Height=0|Gender=0)  P(Height=0|Gender=1)
56      0.535152          0.428249          0.
57          86795            0.195632          0.123472
58 total iterations: 6
59 -----
60 P(Gender=0)  P(Gender=1)
61      0.726475    0.273525
62
63
64
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65 -----Weight|  
66 Gender Table-----  
67 P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(  
Weight=0|Gender=1) P(Weight=1|Gender=1)  
68 0.862349 0.137651  
69 0.634402 0.365598  
70  
71  
72 -----Height|  
73 Gender Table-----  
74 P(Height=0|Gender=0) P(Height=1|Gender=0) P(  
Height=0|Gender=1) P(Height=1|Gender=1)  
75 0.688255 0.311745  
76 2.279993e-07 1.0  
77  
78  
79 Test Case #3  
80 P(Gender=0) P(Weight=0|Gender=0) P(Weight=0|  
Gender=1) P(Height=0|Gender=0) P(Height=0|Gender=1)  
)  
81 0.1 0.1  
0.1 0.1  
0.1 0.1  
82 total iterations: 6  
83 -----Gender Table-----  
84 P(Gender=0) P(Gender=1)  
85 0.726475 0.273525  
86  
87  
88  
89  
90 -----Weight|  
91 Gender Table-----  
92 P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(  
Weight=0|Gender=1) P(Weight=1|Gender=1)  
93 0.862349 0.137651  
94 0.634403 0.365597
```

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95
96
97 -----Height|
Gender Table-----
98 P(Height=0|Gender=0)  P(Height=1|Gender=0)  P(
Height=0|Gender=1)  P(Height=1|Gender=1)
99          0.688255           0.311745
               4.158310e-07           1.0
100
101
102
103
104 Test Case #4
105 P(Gender=0)  P(Weight=0|Gender=0)  P(Weight=0|
Gender=1)  P(Height=0|Gender=0)  P(Height=0|Gender=1)
)
106          0.9           0.9
                  0.9           0.9
107 total iterations: 5
108 -----
109 P(Gender=0)  P(Gender=1)
110      0.726481     0.273519
111
112
113
114
115 -----Weight|
Gender Table-----
116 P(Weight=0|Gender=0)  P(Weight=1|Gender=0)  P(
Weight=0|Gender=1)  P(Weight=1|Gender=1)
117          0.86235           0.13765
                  0.634395           0.365605
118
119
120
121
122 -----Height|
Gender Table-----
123 P(Height=0|Gender=0)  P(Height=1|Gender=0)  P(
Height=0|Gender=1)  P(Height=1|Gender=1)
124          0.688249           0.311751
               5.168287e-07           0.999999
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125
126
127
128
129 Test Case #5
130 P(Gender=0)  P(Weight=0|Gender=0)  P(Weight=0|
    Gender=1)  P(Height=0|Gender=0)  P(Height=0|Gender=1
    )
131           0.5          0.5
                  0.5          0.5
                  0.5
132 total iterations: 6
133 -----Gender Table-----
134 P(Gender=0)  P(Gender=1)
135     0.726476      0.273524
136
137
138
139
140 -----Weight|Gender Table-----
141 P(Weight=0|Gender=0)  P(Weight=1|Gender=0)  P(
    Weight=0|Gender=1)  P(Weight=1|Gender=1)
142           0.862349          0.137651
                  0.634402          0.365598
143
144
145
146
147 -----Height|Gender Table-----
148 P(Height=0|Gender=0)  P(Height=1|Gender=0)  P(
    Height=0|Gender=1)  P(Height=1|Gender=1)
149           0.688254          0.311746
                  2.123324e-07          1.0
150
151
152
153
154 ****
155 filename hw2dataset_30.txt
156 Provided
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157 P(Gender=0)  P(Weight=0|Gender=0)  P(Weight=0|
    Gender=1)  P(Height=0|Gender=0)  P(Height=0|Gender=1
)
158          0.7           0.8
                  0.4           0.7
                  0.3
159 total iterations: 4
160 -----
-----Gender Table
-----
161 P(Gender=0)  P(Gender=1)
162      0.555546     0.444454
163
164
165
166
167 -----
-----Weight |
-----Gender Table-----
168 P(Weight=0|Gender=0)  P(Weight=1|Gender=0)  P(
    Weight=0|Gender=1)  P(Weight=1|Gender=1)
169          0.892362           0.107638
                  0.234562           0.765438
170
171
172
173
174 -----
-----Height |
-----Gender Table-----
175 P(Height=0|Gender=0)  P(Height=1|Gender=0)  P(
    Height=0|Gender=1)  P(Height=1|Gender=1)
176          0.532355           0.467645
                  0.234562           0.765438
177
178
179
180
181 Test Case #1
182 P(Gender=0)  P(Weight=0|Gender=0)  P(Weight=0|
    Gender=1)  P(Height=0|Gender=0)  P(Height=0|Gender=1
)
183      0.750369           0.849669           0.
      998049           0.983888           0.666229
184 total iterations: 6
185 -----
-----Gender Table
-----
```

```
186 P(Gender=0) P(Gender=1)
187     0.555466    0.444534
188
189
190
191
192 -----Weight|
193   Gender Table-----
194   P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(
195   Weight=0|Gender=1) P(Weight=1|Gender=1)
196       0.89251           0.10749
197       0.234496          0.765504
198
199 -----Height|
200   Gender Table-----
201   P(Height=0|Gender=0) P(Height=1|Gender=0) P(
202   Height=0|Gender=1) P(Height=1|Gender=1)
203       0.532452          0.467548
204       0.234496          0.765504
205
206 Test Case #2
207   P(Gender=0) P(Weight=0|Gender=0) P(Weight=0|
208   Gender=1) P(Height=0|Gender=0) P(Height=0|Gender=1
209 )
210       0.535152          0.428249          0.
211       86795              0.195632          0.123472
212 total iterations: 6
213
214
215
216
217 -----Gender Table
218   P(Gender=0) P(Gender=1)
219       0.555464    0.444536
220
221
222
223
224
225
226
227 -----Weight|
228   Gender Table-----
229   P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(
230   Weight=0|Gender=1) P(Weight=1|Gender=1)
231       0.89251           0.10749
232       0.234496          0.765504
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218 Weight=0|Gender=1) P(Weight=1|Gender=1)
219          0.892512      0.107488
220          0.234495      0.765505
221
222
223
224 -----Height|
225   Gender Table-----
226   P(Height=0|Gender=0)  P(Height=1|Gender=0)  P(
227   Height=0|Gender=1)  P(Height=1|Gender=1)
228          0.532453      0.467547
229          0.234495      0.765505
230
231 Test Case #3
232   P(Gender=0)  P(Weight=0|Gender=0)  P(Weight=0|
233   Gender=1)  P(Height=0|Gender=0)  P(Height=0|Gender=1)
234           0.1          0.1          0.1
235           0.1          0.1
236           0.1
237
238
239
240
241
242 -----Weight|
243   Gender Table-----
244   P(Weight=0|Gender=0)  P(Weight=1|Gender=0)  P(
245   Weight=0|Gender=1)  P(Weight=1|Gender=1)
246          0.892397      0.107603
247          0.234582      0.765418
248
249 -----Height|
```

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249 Gender Table-----
250 P(Height=0|Gender=0) P(Height=1|Gender=0) P(
    Height=0|Gender=1) P(Height=1|Gender=1)
251          0.532363          0.467637
                  0.234582          0.765418
252
253
254
255
256 Test Case #4
257 P(Gender=0) P(Weight=0|Gender=0) P(Weight=0|
    Gender=1) P(Height=0|Gender=0) P(Height=0|Gender=1
)
258          0.9          0.9
                  0.9          0.9
259 total iterations: 6
260 -----Gender Table
-----
261 P(Gender=0) P(Gender=1)
262      0.555464      0.444536
263
264
265
266
267 -----Weight|
    Gender Table-----
268 P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(
    Weight=0|Gender=1) P(Weight=1|Gender=1)
269          0.892513          0.107487
                  0.234494          0.765506
270
271
272
273
274 -----Height|
    Gender Table-----
275 P(Height=0|Gender=0) P(Height=1|Gender=0) P(
    Height=0|Gender=1) P(Height=1|Gender=1)
276          0.532454          0.467546
                  0.234494          0.765506
277
278
279
```

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280
281 Test Case #5
282 P(Gender=0)  P(Weight=0|Gender=0)  P(Weight=0|
    Gender=1)  P(Height=0|Gender=0)  P(Height=0|Gender=1
    )
283          0.5           0.5
                  0.5           0.5
                  0.5
284 total iterations: 5
285 -----Gender Table-----
286 P(Gender=0)  P(Gender=1)
287     0.555512      0.444488
288
289
290
291
292 -----Weight|
    Gender Table-----
293 P(Weight=0|Gender=0)  P(Weight=1|Gender=0)  P(
    Weight=0|Gender=1)  P(Weight=1|Gender=1)
294          0.892423           0.107577
                  0.234537           0.765463
295
296
297
298
299 -----Height|
    Gender Table-----
300 P(Height=0|Gender=0)  P(Height=1|Gender=0)  P(
    Height=0|Gender=1)  P(Height=1|Gender=1)
301          0.532394           0.467606
                  0.234537           0.765463
302
303
304
305
306 ****
    ****
307 filename hw2dataset_50.txt
308 Provided
309 P(Gender=0)  P(Weight=0|Gender=0)  P(Weight=0|
    Gender=1)  P(Height=0|Gender=0)  P(Height=0|Gender=1
    )
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310          0.7          0.8
                  0.4
                  0.3
311 total iterations: 30
312 -----Gender Table-----
313 P(Gender=0)  P(Gender=1)
314      0.704226    0.295774
315
316
317
318
319 -----Weight|Gender Table-----
320 P(Weight=0|Gender=0)  P(Weight=1|Gender=0)  P(
   Weight=0|Gender=1)  P(Weight=1|Gender=1)
321          0.69528        0.30472
                  0.373143        0.626857
322
323
324
325
326 -----Height|Gender Table-----
327 P(Height=0|Gender=0)  P(Height=1|Gender=0)  P(
   Height=0|Gender=1)  P(Height=1|Gender=1)
328          0.851907       0.148093
                  0.000221       0.999779
329
330
331
332
333 Test Case #1
334 P(Gender=0)  P(Weight=0|Gender=0)  P(Weight=0|
   Gender=1)  P(Height=0|Gender=0)  P(Height=0|Gender=1)
335          0.750369       0.849669        0.
         998049           0.983888       0.666229
336 total iterations: 28
337 -----Gender Table-----
338 P(Gender=0)  P(Gender=1)
339      0.704215    0.295785
340
```

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341
342
343
344 -----Weight|
   Gender Table-----
345 P(Weight=0|Gender=0)  P(Weight=1|Gender=0)  P(
   Weight=0|Gender=1)  P(Weight=1|Gender=1)
346           0.695286          0.304714
                  0.37314          0.62686
347
348
349
350
351 -----Height|
   Gender Table-----
352 P(Height=0|Gender=0)  P(Height=1|Gender=0)  P(
   Height=0|Gender=1)  P(Height=1|Gender=1)
353           0.851904          0.148096
                  0.000256          0.999744
354
355
356
357
358 Test Case #2
359 P(Gender=0)  P(Weight=0|Gender=0)  P(Weight=0|
   Gender=1)  P(Height=0|Gender=0)  P(Height=0|Gender=1
   )
360           0.535152          0.428249          0.
   86795           0.195632          0.123472
361 total iterations: 32
362 -----Gender Table
   -----
363 P(Gender=0)  P(Gender=1)
364           0.704216          0.295784
365
366
367
368
369 -----Weight|
   Gender Table-----
370 P(Weight=0|Gender=0)  P(Weight=1|Gender=0)  P(
   Weight=0|Gender=1)  P(Weight=1|Gender=1)
371           0.695285          0.304715
                  0.37314          0.62686
```

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372
373
374
375
376 -----Height|
   Gender Table-----
377 P(Height=0|Gender=0)  P(Height=1|Gender=0)  P(
   Height=0|Gender=1)  P(Height=1|Gender=1)
378          0.851905           0.148095
                      0.000253           0.999747
379
380
381
382
383 Test Case #3
384 P(Gender=0)  P(Weight=0|Gender=0)  P(Weight=0|
   Gender=1)  P(Height=0|Gender=0)  P(Height=0|Gender=1
   )
385          0.1           0.1
                      0.1           0.1
386 total iterations: 35
387 -----Gender Table
-----
388 P(Gender=0)  P(Gender=1)
389          0.704215     0.295785
390
391
392
393
394 -----Weight|
   Gender Table-----
395 P(Weight=0|Gender=0)  P(Weight=1|Gender=0)  P(
   Weight=0|Gender=1)  P(Weight=1|Gender=1)
396          0.695286           0.304714
                      0.37314           0.62686
397
398
399
400
401 -----Height|
   Gender Table-----
402 P(Height=0|Gender=0)  P(Height=1|Gender=0)  P(
   Height=0|Gender=1)  P(Height=1|Gender=1)
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403          0.851904          0.148096
                  0.000259          0.999741
404
405
406
407
408 Test Case #4
409 P(Gender=0)  P(Weight=0|Gender=0)  P(Weight=0|
   Gender=1)  P(Height=0|Gender=0)  P(Height=0|Gender=1
   )
410          0.9          0.9
                  0.9          0.9
411 total iterations: 27
412 -----Gender Table-----
413 P(Gender=0)  P(Gender=1)
414      0.704222      0.295778
415
416
417
418
419 -----Weight|
   Gender Table-----
420 P(Weight=0|Gender=0)  P(Weight=1|Gender=0)  P(
   Weight=0|Gender=1)  P(Weight=1|Gender=1)
421          0.695282          0.304718
                  0.373142          0.626858
422
423
424
425
426 -----Height|
   Gender Table-----
427 P(Height=0|Gender=0)  P(Height=1|Gender=0)  P(
   Height=0|Gender=1)  P(Height=1|Gender=1)
428          0.851906          0.148094
                  0.000233          0.999767
429
430
431
432
433 Test Case #5
434 P(Gender=0)  P(Weight=0|Gender=0)  P(Weight=0|

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434 Gender=1) P(Height=0|Gender=0) P(Height=0|Gender=1
)
435           0.5               0.5
                           0.5
                           0.5
436 total iterations: 33
437 -----
438   P(Gender=0)  P(Gender=1)
439     0.704217    0.295783
440
441
442
443
444 -----
445   P(Weight=0|Gender=0)  P(Weight=1|Gender=0)  P(
446     Weight=0|Gender=1)  P(Weight=1|Gender=1)
447     0.695285          0.304715
448     0.373141          0.626859
449
450
451 -----
452   P(Height=0|Gender=0)  P(Height=1|Gender=0)  P(
453     Height=0|Gender=1)  P(Height=1|Gender=1)
454     0.851905          0.148095
455     0.000249          0.999751
456
457
458 ****
459 filename hw2dataset_70.txt
460 Provided
461   P(Gender=0)  P(Weight=0|Gender=0)  P(Weight=0|
462     Gender=1)  P(Height=0|Gender=0)  P(Height=0|Gender=1
)
463           0.7               0.8
                           0.4
                           0.3
                           0.7

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463 total iterations: 65
464 -----Gender Table-----
465 P(Gender=0)  P(Gender=1)
466      0.573436    0.426564
467
468
469
470
471 -----Weight| 
472 Gender Table-----
473 P(Weight=0|Gender=0)  P(Weight=1|Gender=0)  P(
474 Weight=0|Gender=1)  P(Weight=1|Gender=1)
475      0.502635          0.497365
476          0.027595          0.972405
477
478 -----Height| 
479 Gender Table-----
480 P(Height=0|Gender=0)  P(Height=1|Gender=0)  P(
481 Height=0|Gender=1)  P(Height=1|Gender=1)
482      0.546578          0.453422
483          0.202953          0.797047
484
485 Test Case #1
486 P(Gender=0)  P(Weight=0|Gender=0)  P(Weight=0|
487 Gender=1)  P(Height=0|Gender=0)  P(Height=0|Gender=1)
488      0.750369          0.849669          0.
489          998049          0.983888          0.666229
490 total iterations: 76
491 -----Gender Table-----
492
493
494
495
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496 -----Weight|  
Gender Table-----  
497 P(Weight=0|Gender=0)  P(Weight=1|Gender=0)  P(  
Weight=0|Gender=1)  P(Weight=1|Gender=1)  
498          0.502571          0.497429  
                  0.027777          0.972223  
499  
500  
501  
502  
503 -----Height|  
Gender Table-----  
504 P(Height=0|Gender=0)  P(Height=1|Gender=0)  P(  
Height=0|Gender=1)  P(Height=1|Gender=1)  
505          0.546653          0.453347  
                  0.202922          0.797078  
506  
507  
508  
509  
510 Test Case #2  
511 P(Gender=0)  P(Weight=0|Gender=0)  P(Weight=0|  
Gender=1)  P(Height=0|Gender=0)  P(Height=0|Gender=1)  
)  
512          0.535152          0.428249          0.  
86795          0.195632          0.123472  
513 total iterations: 76  
514 -----Gender Table  
-----  
515 P(Gender=0)  P(Gender=1)  
516          0.573427          0.426573  
517  
518  
519  
520  
521 -----Weight|  
Gender Table-----  
522 P(Weight=0|Gender=0)  P(Weight=1|Gender=0)  P(  
Weight=0|Gender=1)  P(Weight=1|Gender=1)  
523          0.502627          0.497373  
                  0.027616          0.972384  
524  
525  
526
```

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527
528 -----Height|
      Gender Table-----
529 P(Height=0|Gender=0)  P(Height=1|Gender=0)  P(
      Height=0|Gender=1)  P(Height=1|Gender=1)
530          0.546586           0.453414
                  0.20295          0.79705
531
532
533
534
535 Test Case #3
536 P(Gender=0)  P(Weight=0|Gender=0)  P(Weight=0|
      Gender=1)  P(Height=0|Gender=0)  P(Height=0|Gender=1
)
537          0.1           0.1
                  0.1           0.1
538 total iterations: 82
539 -----Gender Table
-----
540 P(Gender=0)  P(Gender=1)
541          0.573483     0.426517
542
543
544
545
546 -----Weight|
      Gender Table-----
547 P(Weight=0|Gender=0)  P(Weight=1|Gender=0)  P(
      Weight=0|Gender=1)  P(Weight=1|Gender=1)
548          0.502668           0.497332
                  0.027498          0.972502
549
550
551
552
553 -----Height|
      Gender Table-----
554 P(Height=0|Gender=0)  P(Height=1|Gender=0)  P(
      Height=0|Gender=1)  P(Height=1|Gender=1)
555          0.546538           0.453462
                  0.20297          0.79703
556
```

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557
558
559
560 Test Case #4
561 P(Gender=0)  P(Weight=0|Gender=0)  P(Weight=0|
    Gender=1)  P(Height=0|Gender=0)  P(Height=0|Gender=1
    )
562          0.9           0.9           0.9
                  0.9
                  0.9
563 total iterations: 22
564 -----Gender Table-----
565 P(Gender=0)  P(Gender=1)
566 0.573507    0.426493
567
568
569
570
571 -----Weight|Gender Table-----
572 P(Weight=0|Gender=0)  P(Weight=1|Gender=0)  P(
    Weight=0|Gender=1)  P(Weight=1|Gender=1)
573          0.502686      0.497314
                  0.027448      0.972552
574
575
576
577
578 -----Height|Gender Table-----
579 P(Height=0|Gender=0)  P(Height=1|Gender=0)  P(
    Height=0|Gender=1)  P(Height=1|Gender=1)
580          0.546517      0.453483
                  0.202978      0.797022
581
582
583
584
585 Test Case #5
586 P(Gender=0)  P(Weight=0|Gender=0)  P(Weight=0|
    Gender=1)  P(Height=0|Gender=0)  P(Height=0|Gender=1
    )
587          0.5           0.5
```

```
587          0.5          0.5
588          0.5
589 total iterations: 75
590 -----Gender Table-----
591 P(Gender=0)  P(Gender=1)
592      0.573511    0.426489
593
594
595
596 -----Weight|-----
597 Gender Table-----
598 P(Weight=0|Gender=0)  P(Weight=1|Gender=0)  P(
599      Weight=0|Gender=1)  P(Weight=1|Gender=1)
600      0.502689        0.497311
601      0.027439        0.972561
602
603 -----Height|-----
604 Gender Table-----
605 P(Height=0|Gender=0)  P(Height=1|Gender=0)  P(
606      Height=0|Gender=1)  P(Height=1|Gender=1)
607      0.546513        0.453487
608      0.20298         0.79702
609
610 ****
611 ****
612 filename hw2dataset_100.txt
613 Provided
614 P(Gender=0)  P(Weight=0|Gender=0)  P(Weight=0|
615      Gender=1)  P(Height=0|Gender=0)  P(Height=0|Gender=1)
616      )
617          0.7          0.8
618          0.4          0.7
619          0.3
620 total iterations: 8
621 -----Gender Table-----
622 -----
```

```
617 P(Gender=0) P(Gender=1)
618     0.720806    0.279194
619
620
621
622
623 -----Weight|
624   Gender Table-----
625   P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(
626       Weight=0|Gender=1) P(Weight=1|Gender=1)
627           0.831221      0.168779
628           0.361221      0.638779
629
630 -----Height|
631   Gender Table-----
632   P(Height=0|Gender=0) P(Height=1|Gender=0) P(
633       Height=0|Gender=1) P(Height=1|Gender=1)
634           0.7813        0.2187
635           0.311017      0.688983
636
637 Test Case #1
638 P(Gender=0) P(Weight=0|Gender=0) P(Weight=0|
639     Gender=1) P(Height=0|Gender=0) P(Height=0|Gender=1
640 )
641     0.750369          0.849669          0.
642     998049            0.983888          0.666229
643 total iterations: 34
644
645
646
647
648 -----Gender Table
649   -----Weight|
650   Gender Table-----
```

```
649 Weight=0|Gender=1) P(Weight=1|Gender=1)
650          0.553491      0.446509
651          0.979264      0.020736
652
653
654
655 -----Height|
   Gender Table-----
656 P(Height=0|Gender=0) P(Height=1|Gender=0) P(
   Height=0|Gender=1) P(Height=1|Gender=1)
657          0.492057      0.507943
658          0.95106       0.04894
659
660
661
662 Test Case #2
663 P(Gender=0) P(Weight=0|Gender=0) P(Weight=0|
   Gender=1) P(Height=0|Gender=0) P(Height=0|Gender=1
   )
664          0.535152      0.428249      0.
   86795           0.195632      0.123472
665 total iterations: 18
666 -----Gender Table
   -----
667 P(Gender=0) P(Gender=1)
668          0.532317      0.467683
669
670
671
672
673 -----Weight|
   Gender Table-----
674 P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(
   Weight=0|Gender=1) P(Weight=1|Gender=1)
675          0.485725      0.514275
676          0.943888      0.056112
677
678
679
680 -----Height|
   Gender Table-----
```

```
681 P(Height=0|Gender=0) P(Height=1|Gender=0) P(  
    Height=0|Gender=1) P(Height=1|Gender=1)  
682          0.468137          0.531863  
                  0.856996          0.143004  
683  
684  
685  
686  
687 Test Case #3  
688 P(Gender=0) P(Weight=0|Gender=0) P(Weight=0|  
    Gender=1) P(Height=0|Gender=0) P(Height=0|Gender=1  
)  
689          0.1          0.1  
                  0.1          0.1  
690 total iterations: 2  
691 -----Gender Table  
-----  
692 P(Gender=0) P(Gender=1)  
693          0.1          0.9  
694  
695  
696  
697  
698 -----Weight|  
Gender Table-----  
699 P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(  
    Weight=0|Gender=1) P(Weight=1|Gender=1)  
700          0.7          0.3  
                  0.7          0.3  
701  
702  
703  
704  
705 -----Height|  
Gender Table-----  
706 P(Height=0|Gender=0) P(Height=1|Gender=0) P(  
    Height=0|Gender=1) P(Height=1|Gender=1)  
707          0.65          0.35  
                  0.65          0.35  
708  
709  
710  
711
```

```
712 Test Case #4
713 P(Gender=0)  P(Weight=0|Gender=0)  P(Weight=0|
    Gender=1)  P(Height=0|Gender=0)  P(Height=0|Gender=1)
)
714          0.9          0.9
                  0.9          0.9
                  0.9
715 total iterations: 2
716 -----
717 P(Gender=0)  P(Gender=1)
718          0.9          0.1
719
720
721
722
723 -----
724 P(Weight=0|Gender=0)  P(Weight=1|Gender=0)  P(
    Weight=0|Gender=1)  P(Weight=1|Gender=1)
725          0.7          0.3
                  0.7          0.3
726
727
728
729
730 -----
731 P(Height=0|Gender=0)  P(Height=1|Gender=0)  P(
    Height=0|Gender=1)  P(Height=1|Gender=1)
732          0.65         0.35
                  0.65         0.35
733
734
735
736
737 Test Case #5
738 P(Gender=0)  P(Weight=0|Gender=0)  P(Weight=0|
    Gender=1)  P(Height=0|Gender=0)  P(Height=0|Gender=1)
)
739          0.5          0.5
                  0.5          0.5
                  0.5
740 total iterations: 2
```

```
741 -----Gender Table-----  
742 P(Gender=0) P(Gender=1)  
743 0.5 0.5  
744  
745  
746  
747  
748 -----Weight|  
    Gender Table-----  
749 P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(  
    Weight=0|Gender=1) P(Weight=1|Gender=1)  
750 0.7 0.3  
    0.7 0.3  
751  
752  
753  
754  
755 -----Height|  
    Gender Table-----  
756 P(Height=0|Gender=0) P(Height=1|Gender=0) P(  
    Height=0|Gender=1) P(Height=1|Gender=1)  
757 0.65 0.35  
    0.65 0.35  
758  
759  
760  
761  
762  
763 Process finished with exit code 0  
764
```