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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 0.4 0.7 0.3
7 total iterations: 5
8 -----Gender Table-----
9 P(Gender=0) P(Gender=1)
10 0.726477 0.273523
11
12
13 -----Weight|Gender Table-----
14 P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(Weight=0|Gender=1) P(Weight=1|Gender=1)
15 0.862349 0.137651 0.634399 0.365601
16
17
18 -----Height|Gender Table-----
19 P(Height=0|Gender=0) P(Height=1|Gender=0) P(Height=0|Gender=1) P(Height=1|Gender=1)
20 0.688252 0.311748 4.480958e-07 1.0
21
22
23 Test Case #1
24 P(Gender=0) P(Weight=0|Gender=0) P(Weight=0|Gender=1) P(Height=0|Gender=0) P(Height=0|Gender=1)
25 0.383271 0.511622 0.027045 0.465921 0.96269
26 total iterations: 5
27 -----Gender Table-----
28 P(Gender=0) P(Gender=1)
29 0.726481 0.273519
30
31
32 -----Weight|Gender Table-----
33 P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(Weight=0|Gender=1) P(Weight=1|Gender=1)

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34 0.86235 0.13765 0.634394 0.365606
35
36
37 -----Height|Gender Table-----
38 P(Height=0|Gender=0) P(Height=1|Gender=0) P(Height=0|Gender=1) P(Height=1|Gender=1)
39 0.688248 0.311752 7.684886e-07 0.999999
40
41
42 Test Case #2
43 P(Gender=0) P(Weight=0|Gender=0) P(Weight=0|Gender=1) P(Height=0|Gender=0) P(Height=0|Gender=1)
44 0.527978 0.816105 0.256124 0.931043 0.141905
45 total iterations: 5
46 -----Gender Table-----
47 P(Gender=0) P(Gender=1)
48 0.726472 0.273528
49
50
51 -----Weight|Gender Table-----
52 P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(Weight=0|Gender=1) P(Weight=1|Gender=1)
53 0.862348 0.137652 0.634407 0.365593
54
55
56 -----Height|Gender Table-----
57 P(Height=0|Gender=0) P(Height=1|Gender=0) P(Height=0|Gender=1) P(Height=1|Gender=1)
58 0.688258 0.311742 2.295971e-07 1.0
59
60
61 Test Case #3
62 P(Gender=0) P(Weight=0|Gender=0) P(Weight=0|Gender=1) P(Height=0|Gender=0) P(Height=0|Gender=1)
63 0.1 0.1 0.1 0.1 0.1
64 total iterations: 6
65 -----Gender Table-----
66 P(Gender=0) P(Gender=1)

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67 0.726475 0.273525
68
69
70 -----Weight|Gender Table-----
71 P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(Weight=0|Gender=1) P(Weight=1|Gender=1)
72 0.862349 0.137651 0.634403 0.365597
73
74
75 -----Height|Gender Table-----
76 P(Height=0|Gender=0) P(Height=1|Gender=0) P(Height=0|Gender=1) P(Height=1|Gender=1)
77 0.688255 0.311745 4.158310e-07 1.0
78
79
80 Test Case #4
81 P(Gender=0) P(Weight=0|Gender=0) P(Weight=0|Gender=1) P(Height=0|Gender=0) P(Height=0|Gender=1)
82 0.9 0.9 0.9 0.9 0.9
83 total iterations: 5
84 -----Gender Table-----
85 P(Gender=0) P(Gender=1)
86 0.726481 0.273519
87
88
89 -----Weight|Gender Table-----
90 P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(Weight=0|Gender=1) P(Weight=1|Gender=1)
91 0.86235 0.13765 0.634395 0.365605
92
93
94 -----Height|Gender Table-----
95 P(Height=0|Gender=0) P(Height=1|Gender=0) P(Height=0|Gender=1) P(Height=1|Gender=1)
96 0.688249 0.311751 5.168287e-07 0.999999
97
98
99 Test Case #5

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100 P(Gender=0) P(Weight=0|Gender=0) P(Weight=0|Gender=1) P(Height=0|Gender=0) P(Height=0|Gender=1)
101     0.5      0.5      0.5      0.5      0.5
102 total iterations: 6

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103 -----Gender Table-----

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104 P(Gender=0) P(Gender=1)
105     0.726476  0.273524
106
107

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108 -----Weight|Gender Table-----

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109 P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(Weight=0|Gender=1) P(Weight=1|Gender=1)
110     0.862349      0.137651      0.634402      0.365598
111
112

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113 -----Height|Gender Table-----

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114 P(Height=0|Gender=0) P(Height=1|Gender=0) P(Height=0|Gender=1) P(Height=1|Gender=1)
115     0.688254      0.311746      2.123324e-07      1.0
116
117

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118 *****

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119 filename hw2dataset_30.txt

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120 Provided

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121 P(Gender=0) P(Weight=0|Gender=0) P(Weight=0|Gender=1) P(Height=0|Gender=0) P(Height=0|Gender=1)
122     0.7      0.8      0.4      0.7      0.3
123 total iterations: 4

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124 -----Gender Table-----

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125 P(Gender=0) P(Gender=1)
126     0.555546  0.444454
127
128

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129 -----Weight|Gender Table-----

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130 P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(Weight=0|Gender=1) P(Weight=1|Gender=1)
131     0.892362      0.107638      0.234562      0.765438
132

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133
134 -----Height|Gender Table-----
135 P(Height=0|Gender=0) P(Height=1|Gender=0) P(Height=0|Gender=1) P(Height=1|Gender=1)
136      0.532355      0.467645      0.234562      0.765438
137
138
139 Test Case #1
140 P(Gender=0) P(Weight=0|Gender=0) P(Weight=1|Gender=1) P(Height=0|Gender=0) P(Height=0|Gender=1)
141      0.383271      0.511622      0.027045      0.465921      0.96269
142 total iterations: 5
143 -----Gender Table-----
144 P(Gender=0) P(Gender=1)
145      0.555562      0.444438
146
147
148 -----Weight|Gender Table-----
149 P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(Weight=0|Gender=1) P(Weight=1|Gender=1)
150      0.892329      0.107671      0.234578      0.765422
151
152
153 -----Height|Gender Table-----
154 P(Height=0|Gender=0) P(Height=1|Gender=0) P(Height=0|Gender=1) P(Height=1|Gender=1)
155      0.532334      0.467666      0.234578      0.765422
156
157
158 Test Case #2
159 P(Gender=0) P(Weight=0|Gender=0) P(Weight=1|Gender=1) P(Height=0|Gender=0) P(Height=0|Gender=1)
160      0.527978      0.816105      0.256124      0.931043      0.141905
161 total iterations: 4
162 -----Gender Table-----
163 P(Gender=0) P(Gender=1)
164      0.555383      0.444617
165

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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 0.892667 0.107333 0.234423 0.765577
170
171
172 -----Height|Gender Table-----
173 P(Height=0|Gender=0) P(Height=1|Gender=0) P(Height=0|Gender=1) P(Height=1|Gender=1)
174 0.532555 0.467445 0.234423 0.765577
175
176
177 Test Case #3
178 P(Weight=0|Gender=0) P(Weight=0|Gender=1) P(Height=0|Gender=0) P(Height=0|Gender=1)
179 0.1 0.1 0.1 0.1
180 total iterations: 4
181 -----Gender Table-----
182 P(Gender=0) P(Gender=1)
183 0.555503 0.444497
184
185
186 -----Weight|Gender Table-----
187 P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(Weight=0|Gender=1) P(Weight=1|Gender=1)
188 0.892397 0.107603 0.234582 0.765418
189
190
191 -----Height|Gender Table-----
192 P(Height=0|Gender=0) P(Height=1|Gender=0) P(Height=0|Gender=1) P(Height=1|Gender=1)
193 0.532363 0.467637 0.234582 0.765418
194
195
196 Test Case #4
197 P(Weight=0|Gender=0) P(Weight=0|Gender=1) P(Height=0|Gender=0) P(Height=0|Gender=1)
198 0.9 0.9 0.9 0.9

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199 total iterations: 6
200 -----Gender Table-----
201 P(Gender=0) P(Gender=1)
202 0.555464 0.444536
203
204
205 -----Weight|Gender Table-----
206 P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(Weight=0|Gender=1) P(Weight=1|Gender=1)
207 0.892513 0.107487 0.234494 0.765506
208
209
210 -----Height|Gender Table-----
211 P(Height=0|Gender=0) P(Height=1|Gender=0) P(Height=0|Gender=1) P(Height=1|Gender=1)
212 0.532454 0.467546 0.234494 0.765506
213
214
215 Test Case #5
216 P(Gender=0) P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(Height=0|Gender=0) P(Height=0|Gender=1)
217 0.5 0.5 0.5 0.5 0.5
218 total iterations: 5
219 -----Gender Table-----
220 P(Gender=0) P(Gender=1)
221 0.555512 0.444488
222
223
224 -----Weight|Gender Table-----
225 P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(Weight=0|Gender=1) P(Weight=1|Gender=1)
226 0.892423 0.107577 0.234537 0.765463
227
228
229 -----Height|Gender Table-----
230 P(Height=0|Gender=0) P(Height=1|Gender=0) P(Height=0|Gender=1) P(Height=1|Gender=1)
231 0.532394 0.467606 0.234537 0.765463

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232
233
234 *****
235 filename hw2dataset_50.txt
236 Provided
237 P(Gender=0) P(Weight=0|Gender=0) P(Weight=1|Gender=1) P(Height=0|Gender=0) P(Height=1|Gender=1)
238 0.7 0.8 0.4 0.7 0.3
239 total iterations: 30
240 -----Gender Table-----
241 P(Gender=0) P(Gender=1)
242 0.704226 0.295774
243
244
245 -----Weight|Gender Table-----
246 P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(Weight=0|Gender=1) P(Weight=1|Gender=1)
247 0.69528 0.30472 0.373143 0.626857
248
249
250 -----Height|Gender Table-----
251 P(Height=0|Gender=0) P(Height=1|Gender=0) P(Height=0|Gender=1) P(Height=1|Gender=1)
252 0.851907 0.148093 0.000221 0.999779
253
254
255 Test Case #1
256 P(Gender=0) P(Weight=0|Gender=0) P(Weight=1|Gender=1) P(Height=0|Gender=0) P(Height=1|Gender=1)
257 0.383271 0.511622 0.027045 0.465921 0.96269
258 total iterations: 32
259 -----Gender Table-----
260 P(Gender=0) P(Gender=1)
261 0.704212 0.295788
262
263
264 -----Weight|Gender Table-----

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265 P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(Weight=0|Gender=1) P(Weight=1|Gender=1)
266     0.695288     0.304712     0.373139     0.626861
267
268
269 -----Height|Gender Table-----
270 P(Height=0|Gender=0) P(Height=1|Gender=0) P(Height=0|Gender=1) P(Height=1|Gender=1)
271     0.851903     0.148097     0.000269     0.999731
272
273
274 Test Case #2
275 P(Gender=0) P(Weight=0|Gender=0) P(Weight=0|Gender=1) P(Height=0|Gender=0) P(Height=0|Gender=1)
276     0.527978     0.816105     0.256124     0.931043     0.141905
277 total iterations: 29
278 -----Gender Table-----
279 P(Gender=0) P(Gender=1)
280     0.704219     0.295781
281
282
283 -----Weight|Gender Table-----
284 P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(Weight=0|Gender=1) P(Weight=1|Gender=1)
285     0.695284     0.304716     0.373141     0.626859
286
287
288 -----Height|Gender Table-----
289 P(Height=0|Gender=0) P(Height=1|Gender=0) P(Height=0|Gender=1) P(Height=1|Gender=1)
290     0.851905     0.148095     0.000243     0.999757
291
292
293 Test Case #3
294 P(Gender=0) P(Weight=0|Gender=0) P(Weight=0|Gender=1) P(Height=0|Gender=0) P(Height=0|Gender=1)
295     0.1         0.1         0.1         0.1         0.1
296 total iterations: 35
297 -----Gender Table-----

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298 P(Gender=0) P(Gender=1)

299 0.704215 0.295785

300

301

302 -----Weight|Gender Table-----

303 P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(Weight=0|Gender=1) P(Weight=1|Gender=1)

304 0.695286 0.304714 0.37314 0.62686

305

306

307 -----Height|Gender Table-----

308 P(Height=0|Gender=0) P(Height=1|Gender=0) P(Height=0|Gender=1) P(Height=1|Gender=1)

309 0.851904 0.148096 0.000259 0.999741

310

311

312 Test Case #4

313 P(Gender=0) P(Weight=0|Gender=0) P(Weight=0|Gender=1) P(Height=0|Gender=0) P(Height=0|Gender=1)

314 0.9 0.9 0.9 0.9 0.9

315 total iterations: 27

316 -----Gender Table-----

317 P(Gender=0) P(Gender=1)

318 0.704222 0.295778

319

320

321 -----Weight|Gender Table-----

322 P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(Weight=0|Gender=1) P(Weight=1|Gender=1)

323 0.695282 0.304718 0.373142 0.626858

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 0.851906 0.148094 0.000233 0.999767

329

330

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331 Test Case #5
332 P(Gender=0) P(Weight=0|Gender=0) P(Weight=0|Gender=1) P(Height=0|Gender=0) P(Height=0|Gender=1)
333 0.5 0.5 0.5 0.5 0.5
334 total iterations: 33
335 -----Gender Table-----
336 P(Gender=0) P(Gender=1)
337 0.704217 0.295783
338
339
340 -----Weight|Gender Table-----
341 P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(Weight=0|Gender=1) P(Weight=1|Gender=1)
342 0.695285 0.304715 0.373141 0.626859
343
344
345 -----Height|Gender Table-----
346 P(Height=0|Gender=0) P(Height=1|Gender=0) P(Height=0|Gender=1) P(Height=1|Gender=1)
347 0.851905 0.148095 0.000249 0.999751
348
349
350 *****
351 filename hw2dataset_70.txt
352 Provided
353 P(Gender=0) P(Weight=0|Gender=0) P(Weight=0|Gender=1) P(Height=0|Gender=0) P(Height=0|Gender=1)
354 0.7 0.8 0.4 0.7 0.3
355 total iterations: 65
356 -----Gender Table-----
357 P(Gender=0) P(Gender=1)
358 0.573436 0.426564
359
360
361 -----Weight|Gender Table-----
362 P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(Weight=0|Gender=1) P(Weight=1|Gender=1)
363 0.502635 0.497365 0.027595 0.972405

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364
365
366 -----Height|Gender Table-----
367 P(Height=0|Gender=0) P(Height=1|Gender=0) P(Height=0|Gender=1) P(Height=1|Gender=1)
368 0.546578 0.453422 0.202953 0.797047
369
370
371 Test Case #1
372 P(Gender=0) P(Weight=0|Gender=0) P(Weight=1|Gender=1) P(Height=0|Gender=0) P(Height=0|Gender=1)
373 0.383271 0.511622 0.027045 0.465921 0.96269
374 total iterations: 9
375 -----Gender Table-----
376 P(Gender=0) P(Gender=1)
377 0.576453 0.423547
378
379
380 -----Weight|Gender Table-----
381 P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(Weight=0|Gender=1) P(Weight=1|Gender=1)
382 0.504306 0.495694 0.021937 0.978063
383
384
385 -----Height|Gender Table-----
386 P(Height=0|Gender=0) P(Height=1|Gender=0) P(Height=0|Gender=1) P(Height=1|Gender=1)
387 0.544071 0.455929 0.203918 0.796082
388
389
390 Test Case #2
391 P(Gender=0) P(Weight=0|Gender=0) P(Weight=1|Gender=1) P(Height=0|Gender=0) P(Height=0|Gender=1)
392 0.527978 0.816105 0.256124 0.931043 0.141905
393 total iterations: 80
394 -----Gender Table-----
395 P(Gender=0) P(Gender=1)
396 0.573502 0.426498

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397
398
399 -----Weight|Gender Table-----
400 P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(Weight=0|Gender=1) P(Weight=1|Gender=1)
401 0.502683 0.497317 0.027457 0.972543
402
403
404 -----Height|Gender Table-----
405 P(Height=0|Gender=0) P(Height=1|Gender=0) P(Height=0|Gender=1) P(Height=1|Gender=1)
406 0.546521 0.453479 0.202977 0.797023
407
408
409 Test Case #3
410 P(Gender=0) P(Weight=0|Gender=0) P(Weight=0|Gender=1) P(Height=0|Gender=0) P(Height=0|Gender=1)
411 0.1 0.1 0.1 0.1 0.1
412 total iterations: 82
413 -----Gender Table-----
414 P(Gender=0) P(Gender=1)
415 0.573483 0.426517
416
417
418 -----Weight|Gender Table-----
419 P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(Weight=0|Gender=1) P(Weight=1|Gender=1)
420 0.502668 0.497332 0.027498 0.972502
421
422
423 -----Height|Gender Table-----
424 P(Height=0|Gender=0) P(Height=1|Gender=0) P(Height=0|Gender=1) P(Height=1|Gender=1)
425 0.546538 0.453462 0.20297 0.79703
426
427
428 Test Case #4
429 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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430      0.9      0.9      0.9      0.9
431 total iterations: 22
432 -----Gender Table-----
433 P(Gender=0) P(Gender=1)
434 0.573507 0.426493
435
436
437 -----Weight|Gender Table-----
438 P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(Weight=0|Gender=1) P(Weight=1|Gender=1)
439 0.502686 0.497314 0.027448 0.972552
440
441
442 -----Height|Gender Table-----
443 P(Height=0|Gender=0) P(Height=1|Gender=0) P(Height=0|Gender=1) P(Height=1|Gender=1)
444 0.546517 0.453483 0.202978 0.797022
445
446
447 Test Case #5
448 P(Gender=0) P(Weight=0|Gender=0) P(Weight=0|Gender=1) P(Height=0|Gender=0) P(Height=0|Gender=1)
449 0.5 0.5 0.5 0.5
450 total iterations: 75
451 -----Gender Table-----
452 P(Gender=0) P(Gender=1)
453 0.573511 0.426489
454
455
456 -----Weight|Gender Table-----
457 P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(Weight=0|Gender=1) P(Weight=1|Gender=1)
458 0.502689 0.497311 0.027439 0.972561
459
460
461 -----Height|Gender Table-----
462 P(Height=0|Gender=0) P(Height=1|Gender=0) P(Height=0|Gender=1) P(Height=1|Gender=1)

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463 0.546513 0.453487 0.20298 0.79702
464
465
466 *****
467 filename hw2dataset_100.txt
468 Provided
469 P(Gender=0) P(Weight=0|Gender=0) P(Weight=0|Gender=1) P(Height=0|Gender=0) P(Height=0|Gender=1)
470 0.7 0.8 0.4 0.7 0.3
471 total iterations: 8
472 -----Gender Table-----
473 P(Gender=0) P(Gender=1)
474 0.720806 0.279194
475
476
477 -----Weight|Gender Table-----
478 P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(Weight=0|Gender=1) P(Weight=1|Gender=1)
479 0.831221 0.168779 0.361221 0.638779
480
481
482 -----Height|Gender Table-----
483 P(Height=0|Gender=0) P(Height=1|Gender=0) P(Height=0|Gender=1) P(Height=1|Gender=1)
484 0.7813 0.2187 0.311017 0.688983
485
486
487 Test Case #1
488 P(Gender=0) P(Weight=0|Gender=0) P(Weight=0|Gender=1) P(Height=0|Gender=0) P(Height=0|Gender=1)
489 0.383271 0.511622 0.027045 0.465921 0.96269
490 total iterations: 19
491 -----Gender Table-----
492 P(Gender=0) P(Gender=1)
493 0.76765 0.23235
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 0.823673 0.176327 0.291403 0.708597
499
500
501 -----Height|Gender Table-----
502 P(Height=0|Gender=0) P(Height=1|Gender=0) P(Height=0|Gender=1) P(Height=1|Gender=1)
503 0.75895 0.24105 0.290044 0.709956
504
505
506 Test Case #2
507 P(Weight=0|Gender=0) P(Weight=0|Gender=1) P(Height=0|Gender=0) P(Height=0|Gender=1)
508 0.527978 0.816105 0.256124 0.931043 0.141905
509 total iterations: 7
510 -----Gender Table-----
511 P(Gender=0) P(Gender=1)
512 0.62245 0.37755
513
514
515 -----Weight|Gender Table-----
516 P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(Weight=0|Gender=1) P(Weight=1|Gender=1)
517 0.80374 0.19626 0.528968 0.471032
518
519
520 -----Height|Gender Table-----
521 P(Height=0|Gender=0) P(Height=1|Gender=0) P(Height=0|Gender=1) P(Height=1|Gender=1)
522 0.914255 0.085745 0.214335 0.785665
523
524
525 Test Case #3
526 P(Weight=0|Gender=0) P(Weight=0|Gender=1) P(Height=0|Gender=0) P(Height=0|Gender=1)
527 0.1 0.1 0.1 0.1
528 total iterations: 2

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529 -----Gender Table-----

530 P(Gender=0) P(Gender=1)
531 0.1 0.9
532

533 -----Weight|Gender Table-----

535 P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(Weight=0|Gender=1) P(Weight=1|Gender=1)
536 0.7 0.3 0.7 0.3
537

538 -----Height|Gender Table-----

539 P(Height=0|Gender=0) P(Height=1|Gender=0) P(Height=0|Gender=1) P(Height=1|Gender=1)
540 0.65 0.35 0.65 0.35
541
542

543
544 Test Case #4

545 P(Gender=0) P(Weight=0|Gender=0) P(Weight=0|Gender=1) P(Height=0|Gender=0) P(Height=0|Gender=1)
546 0.9 0.9 0.9 0.9 0.9
547 total iterations: 2

548 -----Gender Table-----

549 P(Gender=0) P(Gender=1)
550 0.9 0.1
551

552 -----Weight|Gender Table-----

553 P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(Weight=0|Gender=1) P(Weight=1|Gender=1)
554 0.7 0.3 0.7 0.3
555
556

557 -----Height|Gender Table-----

558 P(Height=0|Gender=0) P(Height=1|Gender=0) P(Height=0|Gender=1) P(Height=1|Gender=1)
559 0.65 0.35 0.65 0.35
560
561

```
562
563 Test Case #5
564 P(Gender=0) P(Weight=0|Gender=0) P(Weight=0|Gender=1) P(Height=0|Gender=0) P(Height=0|Gender=1)
565 0.5 0.5 0.5 0.5 0.5
566 total iterations: 2
567 -----Gender Table-----
568 P(Gender=0) P(Gender=1)
569 0.5 0.5
570
571
572 -----Weight|Gender Table-----
573 P(Weight=0|Gender=0) P(Weight=1|Gender=0) P(Weight=0|Gender=1) P(Weight=1|Gender=1)
574 0.7 0.3 0.7 0.3
575
576
577 -----Height|Gender Table-----
578 P(Height=0|Gender=0) P(Height=1|Gender=0) P(Height=0|Gender=1) P(Height=1|Gender=1)
579 0.65 0.35 0.65 0.35
580
581
582
583 Process finished with exit code 0
584
```