

DSC530-302 Data Exploration and Analysis

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- Title: "DSC530-302 Week-03 Assignment-1.1, 1.2, 2.1 and 2.4"

```
In [4]: from os.path import basename, exists

def download(url):
    filename = basename(url)
    if not exists(filename):
        from urllib.request import urlretrieve

        local, _ = urlretrieve(url, filename)
        print("Downloaded " + local)

download("https://github.com/AllenDowney/ThinkStats2/raw/master/code/thinkstats2.py")
download("https://github.com/AllenDowney/ThinkStats2/raw/master/code/thinkplot.py")
```

```
In [2]: download("https://github.com/AllenDowney/ThinkStats2/raw/master/code/nsfg.py")

download("https://github.com/AllenDowney/ThinkStats2/raw/master/code/2002FemPreg.dct")
download(
    "https://github.com/AllenDowney/ThinkStats2/raw/master/code/2002FemPreg.dat.gz"
)
```

Read NSFG data into a Pandas DataFrame.

```
In [5]: import nsfg
```

```
In [7]: preg = nsfg.ReadFemPreg()
preg.head()
```

```
Out[7]:
```

	caseid	pregordr	howpreg_n	howpreg_p	moscurrp	nowprgdk	pregend1	pregend2	nbrnaliv	m
0	1	1	NaN	NaN	NaN	NaN	6.0	NaN	1.0	
1	1	2	NaN	NaN	NaN	NaN	6.0	NaN	1.0	
2	2	1	NaN	NaN	NaN	NaN	5.0	NaN	3.0	
3	2	2	NaN	NaN	NaN	NaN	6.0	NaN	1.0	
4	2	3	NaN	NaN	NaN	NaN	6.0	NaN	1.0	

5 rows × 244 columns

Exercises 1.1

Select the `birthord` column, print the value counts, and compare to results published in the [codebook](#)

```
In [8]: preg.birthord.value_counts().sort_index()
```

```
Out[8]: 1.0    4413
        2.0    2874
        3.0    1234
        4.0     421
        5.0     126
        6.0      50
        7.0      20
        8.0       7
        9.0       2
       10.0       1
        Name: birthord, dtype: int64
```

Find NULL values in a column using `isnull()` We can also use `isnull` to count the number of nans.

```
In [9]: preg.birthord.isnull().sum()
```

```
Out[9]: 4445
```

Select the `prglngh` column, print the value counts, and compare to results published in the [codebook](#)

Code book total count matched with following command output : 13593

```
In [10]: preg.prglngh.value_counts().sort_index()
         preg.prglngh.value_counts().sum()
```

```
Out[10]: 13593
```

To compute the mean of a column, you can invoke the `mean` method on a Series. For example, here is the mean birthweight in pounds:

```
In [11]: preg.totalwgt_lb.mean()
```

```
Out[11]: 7.265628457623368
```

Create a new column named `totalwgt_kg` that contains birth weight in kilograms. Compute its mean. Remember that when you create a new column, you have to use dictionary syntax, not dot notation.

```
In [12]: # Solution
         # Created new column with name : totalwgt_kg, and calculated mean using mean() from r

         preg['totalwgt_kg'] = preg.totalwgt_lb / 2.2

         # preg['totalwgt_lb']
         # preg['totalwgt_kg']
```

```
preg.totalwgt_kg.mean()
```

Out[12]: 3.302558389828807

`nsfg.py` also provides `ReadFemResp`, which reads the female respondents file and returns a `DataFrame`:

```
In [13]: download("https://github.com/AllenDowney/ThinkStats2/raw/master/code/2002FemResp.dct")
download("https://github.com/AllenDowney/ThinkStats2/raw/master/code/2002FemResp.dat.g
```

Downloaded 2002FemResp.dct
Downloaded 2002FemResp.dat.gz

```
In [17]: resp = nsfg.ReadFemResp()
type(resp)
```

Out[17]: pandas.core.frame.DataFrame

`DataFrame` provides a method `head` that displays the first five rows:

```
In [18]: resp.head()
```

```
Out[18]:
```

	caseid	rscrinf	rdormres	rostrscrn	rscreenhisp	rscreenrace	age_a	age_r	cmbirth	agescrn	...	p
0	2298	1	5	5	1	5.0	27	27	902	27	...	
1	5012	1	5	1	5	5.0	42	42	718	42	...	
2	11586	1	5	1	5	5.0	43	43	708	43	...	
3	6794	5	5	4	1	5.0	15	15	1042	15	...	
4	616	1	5	4	1	5.0	20	20	991	20	...	

5 rows × 3087 columns

Select the `age_r` column from `resp` and print the value counts. How old are the youngest and oldest respondents?

```
In [19]: # Youngest Responder : 15
# Oldest Responder : 44

resp.age_r.value_counts().sort_index()
```

```
Out[19]: 15    217
         16    223
         17    234
         18    235
         19    241
         20    258
         21    267
         22    287
         23    282
         24    269
         25    267
         26    260
         27    255
         28    252
         29    262
         30    292
         31    278
         32    273
         33    257
         34    255
         35    262
         36    266
         37    271
         38    256
         39    215
         40    256
         41    250
         42    215
         43    253
         44    235
```

Name: age_r, dtype: int64

We can use the `caseid` to match up rows from `resp` and `preg`. For example, we can select the row from `resp` for `caseid` 2298 like this:

```
In [20]: resp[resp.caseid==2298]
```

```
Out[20]:
```

	caseid	rscrinf	rdormres	rostscrn	rscreenhisp	rscreenrace	age_a	age_r	cmbirth	agescrn	...	p
0	2298	1	5	5	1	5.0	27	27	902	27	...	

1 rows × 3087 columns



And we can get the corresponding rows from `preg` like this:

```
In [22]: preg[preg.caseid==2298]
```

Out[22]:

	caseid	pregordr	howpreg_n	howpreg_p	moscurrp	nowprgdk	pregend1	pregend2	nbrnaliv
2610	2298	1	NaN	NaN	NaN	NaN	6.0	NaN	1.0
2611	2298	2	NaN	NaN	NaN	NaN	6.0	NaN	1.0
2612	2298	3	NaN	NaN	NaN	NaN	6.0	NaN	1.0
2613	2298	4	NaN	NaN	NaN	NaN	6.0	NaN	1.0

4 rows × 245 columns

How old is the respondent with **caseid** 1?

```
In [23]: # resp[resp.caseid==1]
# preg[preg.caseid==1]
resp[resp.caseid==1].age_r
```

Out[23]: 1069 44
Name: age_r, dtype: int64

What are the pregnancy lengths for the respondent with **caseid** 2298?

```
In [24]: # Solution
preg[preg.caseid==2298].prglnth
```

Out[24]: 2610 40
2611 36
2612 30
2613 40
Name: prglnth, dtype: int64

What was the birthweight of the first baby born to the respondent with **caseid** 5012?

```
In [26]: # Solution
preg[preg.caseid==5012].birthwgt_lb
```

Out[26]: 5515 6.0
Name: birthwgt_lb, dtype: float64

```
In [ ]: ## Exercise 1.2
```

```
In [28]: # Solution - Following pregnum count matched with codebook count.
preg.pregnum.value_counts().sort_index()
```

```
Out[28]: 1      1267
         2      2864
         3      3330
         4      2444
         5      1525
         6       900
         7       560
         8       320
         9       189
        10        90
        11        33
        12        24
        14        28
        19        19
```

Name: pregnum, dtype: int64

```
In [29]: # Solution : You can also cross-validate the respondent and pregnancy files by comparing
#           for each respondent with the number of records in the pregnancy file/
#           nsfg.ValidatePregnum(resp,preg) return True ( Number are matched and valid)

nsfg.ValidatePregnum(resp,preg)
```

Out[29]: True

```
In [30]: # Solution : -
# You can use nsfg.MakePregMap to make a dictionary that maps from each caseid to a list of indices

preg_map = nsfg.MakePregMap(preg)

for caseid, indices in preg_map.items():
    print(caseid,indices)

#     if len(indices) >= 2:
#         pair = preg.loc[indices[0:2]].prgLength
#         diff = np.diff(pair)[0]
#         hist[diff] += 1
```

1 [0, 1]
2 [2, 3, 4]
6 [5, 6, 7]
7 [8, 9]
12 [10]
14 [11, 12, 13]
15 [14, 15, 16]
18 [17, 18]
21 [19, 20]
23 [21, 22]
24 [23, 24, 25]
28 [26]
31 [27, 28, 29]
36 [30, 31]
38 [32, 33, 34]
39 [35, 36]
44 [37, 38, 39, 40]
45 [41]
46 [42, 43]
49 [44, 45, 46, 47]
51 [48, 49, 50]
52 [51]
57 [52, 53, 54]
60 [55, 56]
63 [57, 58, 59]
69 [60]
70 [61, 62, 63, 64]
71 [65]
72 [66, 67]
73 [68, 69]
77 [70, 71]
80 [72, 73, 74, 75, 76]
81 [77]
86 [78, 79, 80]
90 [81, 82]
91 [83, 84, 85, 86, 87, 88, 89]
92 [90, 91, 92]
95 [93, 94]
101 [95, 96]
106 [97, 98, 99]
114 [100]
115 [101]
116 [102, 103]
118 [104, 105, 106]
119 [107, 108]
123 [109, 110]
129 [111]
132 [112, 113]
135 [114]
138 [115]
139 [116, 117]
142 [118, 119, 120, 121]
143 [122, 123]
145 [124, 125, 126, 127, 128, 129]
149 [130, 131, 132]
150 [133, 134, 135, 136, 137, 138]
151 [139]
152 [140, 141, 142, 143, 144, 145, 146]
153 [147, 148]
156 [149]

159 [150, 151]
160 [152, 153, 154, 155, 156]
172 [157, 158, 159]
173 [160]
176 [161, 162]
181 [163, 164]
183 [165, 166]
184 [167]
186 [168, 169]
190 [170, 171, 172, 173, 174]
193 [175, 176]
204 [177]
209 [178]
210 [179, 180, 181, 182]
213 [183, 184, 185]
215 [186, 187]
218 [188, 189, 190]
219 [191, 192]
222 [193]
223 [194, 195, 196, 197, 198, 199, 200, 201]
225 [202]
226 [203]
227 [204, 205]
230 [206, 207]
234 [208, 209]
235 [210]
238 [211]
244 [212, 213, 214]
245 [215, 216]
246 [217, 218, 219, 220]
247 [221, 222]
248 [223, 224, 225]
249 [226, 227, 228]
251 [229, 230, 231, 232]
252 [233, 234]
253 [235, 236, 237, 238]
254 [239, 240, 241]
255 [242, 243, 244, 245, 246]
256 [247, 248, 249]
259 [250, 251, 252]
263 [253, 254, 255, 256, 257]
269 [258, 259, 260, 261]
275 [262]
277 [263, 264, 265]
278 [266, 267, 268, 269, 270, 271, 272, 273]
281 [274, 275, 276]
284 [277, 278, 279, 280, 281]
285 [282, 283]
286 [284]
287 [285, 286, 287]
288 [288, 289, 290]
290 [291]
292 [292, 293, 294, 295]
294 [296, 297, 298]
299 [299]
300 [300, 301, 302, 303, 304, 305]
302 [306, 307]
309 [308, 309, 310, 311, 312, 313]
314 [314, 315, 316, 317, 318]
315 [319, 320, 321, 322]

319 [323, 324, 325, 326]
320 [327, 328, 329]
324 [330, 331, 332, 333, 334]
325 [335, 336]
327 [337, 338]
328 [339, 340]
334 [341, 342, 343, 344, 345, 346]
336 [347, 348, 349]
340 [350, 351, 352, 353]
343 [354, 355, 356]
344 [357, 358]
348 [359, 360, 361]
349 [362, 363]
350 [364, 365, 366, 367]
354 [368, 369]
356 [370, 371]
357 [372, 373, 374]
361 [375]
362 [376, 377, 378, 379]
364 [380]
365 [381, 382, 383, 384]
368 [385, 386, 387, 388]
372 [389, 390, 391, 392, 393, 394]
374 [395]
379 [396, 397, 398, 399]
382 [400, 401, 402]
383 [403, 404, 405, 406]
385 [407, 408, 409, 410]
390 [411, 412, 413]
398 [414]
402 [415]
403 [416]
404 [417, 418]
407 [419]
408 [420, 421]
410 [422]
413 [423, 424, 425, 426, 427, 428, 429, 430, 431, 432]
415 [433, 434, 435, 436, 437]
416 [438]
418 [439, 440, 441]
419 [442, 443, 444, 445, 446]
420 [447, 448]
421 [449]
425 [450, 451]
427 [452, 453]
428 [454]
429 [455]
432 [456, 457, 458]
434 [459]
437 [460, 461, 462]
438 [463, 464, 465, 466, 467]
442 [468]
444 [469, 470, 471, 472, 473, 474]
445 [475]
451 [476, 477, 478]
452 [479]
455 [480, 481]
456 [482, 483, 484]
457 [485]
459 [486, 487, 488, 489]

462 [490, 491]
465 [492, 493]
467 [494, 495]
468 [496]
472 [497]
473 [498, 499, 500]
478 [501, 502]
479 [503, 504]
480 [505]
481 [506, 507, 508, 509, 510, 511, 512]
491 [513, 514, 515, 516]
494 [517, 518, 519]
497 [520]
505 [521, 522, 523]
506 [524, 525]
508 [526]
509 [527, 528, 529]
510 [530, 531, 532, 533]
512 [534]
514 [535, 536]
515 [537, 538, 539, 540, 541, 542]
519 [543]
520 [544, 545, 546, 547, 548]
522 [549]
523 [550, 551, 552]
524 [553]
530 [554, 555, 556, 557, 558]
535 [559, 560]
539 [561]
540 [562, 563, 564, 565]
541 [566]
542 [567, 568, 569, 570]
545 [571]
546 [572]
548 [573]
551 [574, 575, 576]
552 [577, 578]
553 [579, 580]
555 [581, 582]
556 [583]
560 [584, 585, 586]
561 [587]
562 [588, 589, 590]
564 [591, 592]
567 [593, 594, 595]
569 [596]
571 [597, 598]
572 [599, 600, 601]
573 [602, 603, 604]
574 [605, 606, 607, 608, 609, 610, 611]
576 [612, 613]
578 [614]
580 [615, 616]
581 [617, 618, 619, 620]
582 [621, 622]
583 [623]
586 [624, 625, 626, 627]
587 [628, 629]
589 [630, 631, 632, 633]
590 [634, 635]

591 [636]
594 [637]
595 [638, 639, 640, 641]
596 [642]
599 [643, 644]
600 [645]
601 [646, 647, 648, 649, 650, 651, 652, 653, 654, 655]
602 [656]
606 [657, 658, 659, 660, 661]
607 [662, 663]
609 [664, 665, 666]
618 [667]
620 [668]
622 [669, 670]
623 [671]
627 [672]
628 [673, 674]
629 [675]
632 [676, 677, 678, 679]
635 [680, 681, 682, 683, 684, 685, 686, 687, 688]
637 [689, 690, 691, 692]
642 [693, 694, 695]
652 [696, 697, 698]
653 [699, 700, 701]
656 [702, 703, 704]
657 [705, 706, 707]
659 [708, 709, 710]
663 [711, 712, 713]
664 [714, 715]
665 [716, 717, 718]
668 [719, 720]
671 [721]
675 [722, 723]
676 [724, 725]
678 [726]
679 [727, 728, 729]
681 [730]
684 [731, 732]
685 [733, 734, 735, 736, 737]
686 [738, 739]
687 [740]
689 [741, 742]
693 [743, 744, 745, 746]
695 [747, 748, 749]
697 [750]
701 [751, 752, 753, 754, 755]
702 [756, 757, 758, 759, 760, 761, 762, 763]
704 [764]
706 [765]
707 [766, 767, 768, 769, 770]
708 [771, 772, 773, 774, 775]
710 [776, 777, 778]
711 [779]
712 [780, 781, 782]
714 [783, 784]
723 [785, 786, 787]
724 [788, 789, 790, 791, 792]
732 [793, 794]
734 [795, 796, 797]
737 [798, 799, 800]

739 [801, 802]
742 [803]
743 [804, 805, 806, 807]
745 [808, 809, 810, 811, 812]
750 [813, 814]
752 [815, 816, 817]
755 [818, 819, 820]
756 [821, 822, 823, 824]
758 [825, 826, 827, 828]
759 [829, 830]
760 [831, 832, 833, 834, 835]
761 [836, 837, 838, 839, 840]
768 [841]
772 [842, 843]
775 [844, 845]
776 [846, 847]
778 [848, 849]
781 [850]
782 [851, 852, 853]
784 [854, 855, 856]
785 [857]
786 [858, 859]
787 [860, 861]
788 [862, 863]
789 [864, 865]
790 [866, 867, 868]
792 [869]
796 [870, 871, 872, 873, 874]
803 [875, 876]
804 [877, 878]
805 [879, 880, 881, 882]
808 [883, 884, 885, 886, 887]
810 [888]
811 [889, 890, 891]
814 [892, 893, 894, 895]
816 [896, 897, 898, 899]
820 [900, 901, 902, 903]
822 [904, 905]
826 [906, 907, 908]
827 [909, 910, 911]
829 [912, 913]
830 [914, 915, 916]
832 [917, 918, 919, 920, 921, 922, 923]
835 [924]
836 [925, 926]
841 [927]
843 [928, 929, 930]
844 [931, 932, 933, 934, 935]
845 [936, 937, 938, 939, 940, 941, 942, 943]
847 [944, 945]
848 [946, 947, 948, 949]
849 [950, 951, 952, 953, 954]
852 [955, 956, 957, 958, 959]
854 [960, 961, 962]
859 [963, 964]
861 [965, 966, 967, 968]
862 [969, 970]
863 [971, 972, 973]
864 [974, 975, 976, 977]
865 [978, 979, 980, 981]

867 [982, 983]
868 [984, 985, 986]
872 [987, 988, 989, 990]
874 [991, 992, 993]
876 [994, 995]
877 [996, 997, 998, 999, 1000]
880 [1001, 1002]
881 [1003, 1004]
882 [1005, 1006, 1007, 1008, 1009]
884 [1010, 1011]
885 [1012]
886 [1013, 1014]
890 [1015, 1016]
895 [1017, 1018]
897 [1019, 1020, 1021, 1022]
899 [1023, 1024]
900 [1025]
901 [1026, 1027, 1028, 1029, 1030]
904 [1031, 1032]
907 [1033]
910 [1034]
917 [1035]
918 [1036, 1037]
921 [1038, 1039]
928 [1040, 1041]
929 [1042, 1043, 1044]
930 [1045, 1046]
932 [1047, 1048, 1049, 1050]
938 [1051, 1052, 1053]
941 [1054, 1055]
943 [1056]
945 [1057, 1058, 1059]
947 [1060, 1061]
948 [1062, 1063]
950 [1064]
953 [1065, 1066]
954 [1067, 1068, 1069, 1070, 1071]
957 [1072, 1073]
959 [1074, 1075]
960 [1076]
961 [1077, 1078, 1079, 1080]
966 [1081, 1082, 1083]
967 [1084, 1085, 1086, 1087, 1088]
969 [1089, 1090]
971 [1091, 1092]
972 [1093, 1094, 1095, 1096]
974 [1097]
980 [1098, 1099, 1100, 1101, 1102]
984 [1103, 1104]
985 [1105]
989 [1106, 1107, 1108, 1109, 1110, 1111, 1112, 1113, 1114]
990 [1115, 1116]
992 [1117, 1118]
996 [1119, 1120]
997 [1121, 1122]
999 [1123, 1124, 1125]
1000 [1126, 1127, 1128, 1129]
1004 [1130]
1005 [1131]
1007 [1132, 1133, 1134, 1135]

1010 [1136, 1137]
1014 [1138]
1015 [1139, 1140]
1016 [1141, 1142, 1143, 1144]
1017 [1145, 1146, 1147, 1148]
1025 [1149]
1026 [1150, 1151]
1028 [1152, 1153, 1154]
1029 [1155, 1156]
1030 [1157, 1158, 1159]
1031 [1160, 1161, 1162]
1040 [1163]
1042 [1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171]
1044 [1172, 1173]
1045 [1174, 1175]
1050 [1176]
1058 [1177, 1178, 1179, 1180, 1181]
1060 [1182, 1183]
1061 [1184, 1185]
1062 [1186, 1187, 1188]
1063 [1189, 1190, 1191, 1192]
1064 [1193]
1068 [1194, 1195, 1196]
1069 [1197]
1070 [1198]
1072 [1199]
1075 [1200, 1201, 1202, 1203, 1204]
1077 [1205, 1206, 1207]
1084 [1208, 1209]
1086 [1210, 1211, 1212, 1213, 1214, 1215]
1087 [1216, 1217]
1088 [1218, 1219, 1220, 1221]
1089 [1222, 1223, 1224, 1225, 1226, 1227]
1090 [1228]
1091 [1229, 1230, 1231]
1092 [1232, 1233, 1234, 1235]
1094 [1236]
1095 [1237]
1098 [1238, 1239]
1099 [1240]
1100 [1241, 1242, 1243, 1244]
1101 [1245, 1246, 1247, 1248, 1249, 1250]
1107 [1251]
1111 [1252]
1113 [1253, 1254, 1255, 1256]
1115 [1257]
1120 [1258, 1259]
1121 [1260, 1261, 1262]
1122 [1263]
1123 [1264, 1265]
1129 [1266]
1130 [1267, 1268, 1269, 1270]
1131 [1271, 1272, 1273]
1134 [1274, 1275, 1276]
1138 [1277, 1278, 1279]
1139 [1280]
1140 [1281]
1145 [1282, 1283]
1147 [1284, 1285]
1151 [1286, 1287, 1288]

1153 [1289, 1290, 1291, 1292]
1159 [1293]
1160 [1294, 1295, 1296]
1161 [1297, 1298]
1164 [1299, 1300]
1165 [1301, 1302]
1166 [1303, 1304, 1305]
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In [33]: *### Title: "Assignment-2.1"*

Based on the results in this chapter, suppose you were asked to summarize what you l

```

# Answer : As per the histogram plot it looks like first babies are arriving early com
# in the df have fewer firsts babies records compare to other babies data.

# Which summary statistics would you use if you wanted to get a story on the evening r
# reassure an anxious patient?

# How the pregnancy length varies for different pregnancy that will show from this dat

# "Do firsts babies arrive late?" Write a paragraph that uses the results in this chapter

# Answer : Mean pregnancy length for first babies is 38.601; for other babies it is 38
# it shows first babies arrive late but that's due to the sample size as the df has
# pregnancy 40 weeks termed as full term delivery and as per the histogram plot any pr
# The answer of the above question depends based on who is asking the question, if it
# In case of doctor that will be based on treatment perspective and for patient it mig

```

```

In [44]: """ Title: "Assignment-2.4"
from os.path import basename, exists

def download(url):
    filename = basename(url)
    if not exists(filename):
        from urllib.request import urlretrieve

        local, _ = urlretrieve(url, filename)
        print("Downloaded " + local)

download("https://github.com/AllenDowney/ThinkStats2/raw/master/code/thinkstats2.py")
download("https://github.com/AllenDowney/ThinkStats2/raw/master/code/thinkplot.py")
download("https://github.com/AllenDowney/ThinkStats2/raw/master/code/nsfg.py")

download("https://github.com/AllenDowney/ThinkStats2/raw/master/code/2002FemPreg.dct")
download(
    "https://github.com/AllenDowney/ThinkStats2/raw/master/code/2002FemPreg.dat.gz"
)
import numpy as np
import nsfg
import thinkplot
import thinkstats2

# reading the data and select records with live births
preg = nsfg.ReadFemPreg()
live = preg[preg.outcome == 1]
# based on the variable birthord, identify the first baby and others
firsts = live[live.birthord == 1]
others = live[live.birthord != 1]
# plot histogram of first and others on same axis
first_hist = thinkstats2.Hist(np.floor(firsts.totalwgt_lb), label='first') # using floor
other_hist = thinkstats2.Hist(np.floor(others.totalwgt_lb), label='other') # using floor
width = 0.4 #total width of 2 bars is .8, leaves .2 space between each pair.
thinkplot.PrePlot(2) #preplot(2) defines no. of histograms planning to plot.
thinkplot.Hist(first_hist, align='right', width=width) # align = right plots .4 width
thinkplot.Hist(other_hist, align='left', width=width) # align = left plots .4 width be
thinkplot.Show(xlabel='Total weight', ylabel='Count', xlim=[1, 16])
def CohenEffectSize(group1, group2):
    """Computes Cohen's effect size for two groups.

```

```

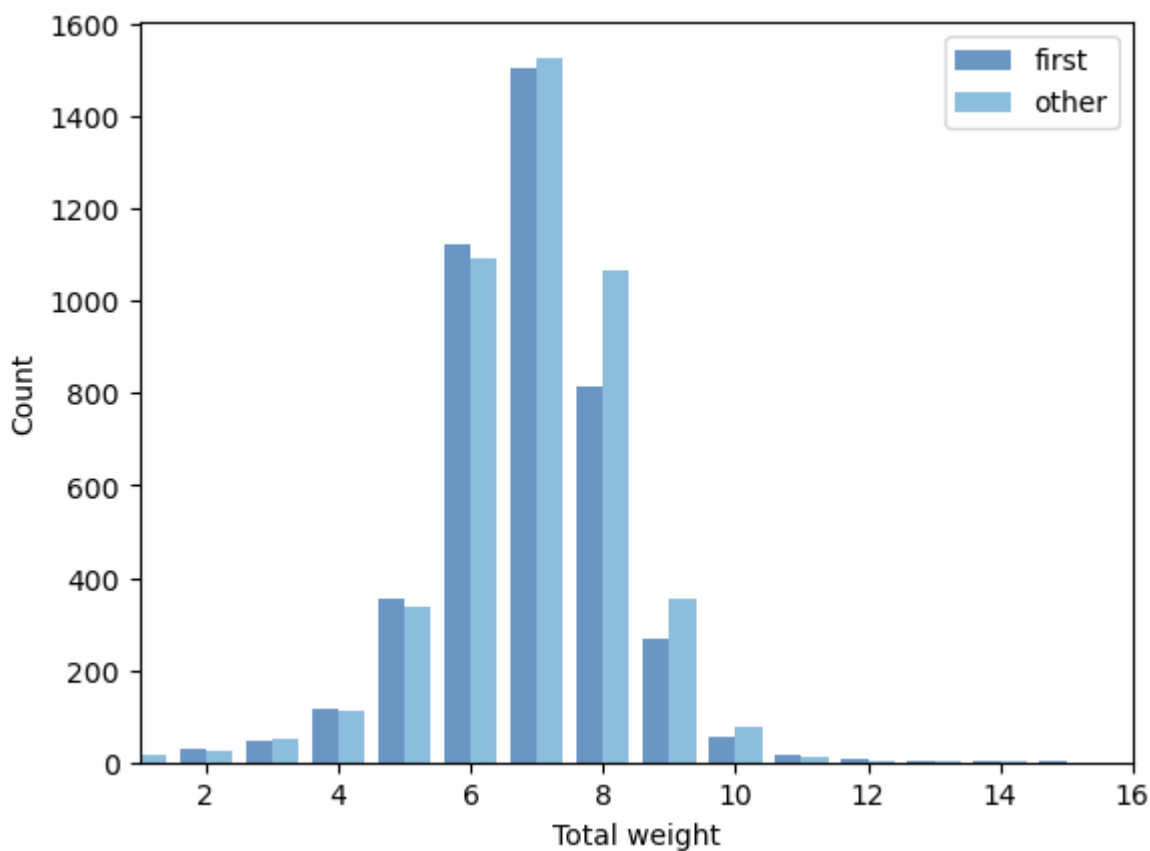
group1: Series or DataFrame
group2: Series or DataFrame

returns: float if the arguments are Series;
         Series if the arguments are DataFrames
"""
diff = group1.mean() - group2.mean()

var1 = group1.var()
var2 = group2.var()
n1, n2 = len(group1), len(group2)

pooled_var = (n1 * var1 + n2 * var2) / (n1 + n2)
d = diff / np.sqrt(pooled_var)
return d
firsts.totalwgt_lb.mean(), others.totalwgt_lb.mean() # calculate mean of both dataframes
CohenEffectSize(firsts.totalwgt_lb, others.totalwgt_lb) # Use the CohenEffectSize function

```



Out[44]: -0.088672927072602

<Figure size 800x600 with 0 Axes>

In []: *### Using the variable totalwgt_lb, investigate whether first babies are lighter or heavier than other babies.*

Solution :

Average mean weight for first babies : 7.201094430437772

Average mean weight for Other babies : 7.325855614973262

Above result indicates First babies are lighter than other babies.

Compute Cohen's d to quantify the difference between the groups.

Solution :

Cohen D reported value is negative (-0.088672927072602), very small impact and negative

How does it compare to the difference in pregnancy length?

Solution :

Mean pregnancy length for first babies is 38.601; for other babies it is 38.523. The di