# Investigating a Potential Error

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**Parental Social Class and Filial School Level Educational Outcomes in Contemporary Britain: Analysis of Understanding Society and Administrative Data**

**ESRC Project ES/R004978/1**

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# Summary

### We notice a potential discrepancy in a_age_dv .

We have selected a sub-sample of children under age 11.

**We selected on variable a_age_dv (keep if a_age_dv<11) Sample member's age at time of the interview, derived.**

Number of children (kids) under 11 in wave a = 12,331; After removing missing values (drop if a_age_dv==-9).

# Potential Inconsistencies Children Under 11

1.The salient examples are.'.

pidp 885684379 ; 886142027 and 68029939 appear to have errors in a_age_dv given their date of birth a_birthy
These respondents are all much older than 11 years old.

# Potential Inconsistencies (all wave a)

There are 77,309 observations in a_indall.dta.

2,055 cases have different values for a_age_dv and a_dvage (age at interview and last birthday).

1. 205 cases identified if a_dvage>(a_age_dv+2) ie. age at last birthday is greater than age at interview by +2 years.

   For example
   pidp 68029939

   a_hidp 68029923

   a_pno 4

   a_birthy 1993
   a_intdaty_dv 2009
   a_age_dv 5
   a_dvage 15

1. 218 cases identified if a_dvage<(a_age_dv-2) ie. age at last birthday is lower than age at interview by -2 years.

For example
pidp 68372651

a_hidp 68372643

a_pno 2

a_birthy 1957
a_intdaty_dv 2009
a_age_dv 57
a_dvage 51

## Potential Inconsistencies (i_inall)

1. In i_indall.dta 1,242 where i_age_dv is not equal to i_dvage.

    pidp 68595023
    i_hidp 70148816
    i_pno 3
    i_birthy 2003
    i_intdaty_dv 2017
    i_age_dv 16
    i_dvage 13

## Potential Inconsistencies (b_youth file)

1. In b_youth.dta 34 cases where b_age_dv is not equal to b_dvage

    For example
    pidp 204400535
    b_hidp 206176002
    b_pno 3
    b_ypdoby 1999
    b_intdaty_dv 2010
    b_age_dv 15
    b_dvag 11

## Potential Inconsistencies (b_inresp file)

1. In b_indresp.dta 470 where b_age_dv is not equal to b_dvage.

    For example

    pidp 69059445
    b_hidp 102700402
    b_pno 1

    b_birthy 1959
    b_intdaty_dv 2010
    b_age_dv 56
    b_dvage 50

**Updates:** 11.05.2020; 12.05.2020

**Dataset SN6614** downloaded 21:16 07/05/20.

University of Essex, Institute for Social and Economic Research. (2020). Understanding Society: Waves 1-9, 2009-2018 and Harmonised BHPS: Waves 1-18, 1991-2009. [data collection]. 12th Edition. UK Data Service. SN: 6614, http://doi.org/10.5255/UKDA-SN-6614-13

## Preparation of Stata

Here we ensure version 16 of Stata is used.

In [1]:

```
version 16
```

Here we create a directory structure and set up directory paths in Stata.

In [2]:

```
clear
```

We first create a directory structure.

In [3]:

```
* raw data
* there are individual wave sub-folders for the UKHLS
```

In [4]:

```
global path1 "C:\Users\vgayle\OneDrive - University of
Edinburgh\Documents\esrc_complex_families_may_2020\data_raw\UKDA-6614-
stata\stata\stata11_se\ukhls_w1"
```

In [5]:

```
global path1b "C:\Users\vgayle\OneDrive - University of
Edinburgh\Documents\esrc_complex_families_may_2020\data_raw\UKDA-6614-
stata\stata\stata11_se\ukhls_w2"
```

In [6]:

```
* clean data
```

In [7]:

```
global path2 "C:\Users\vgayle\OneDrive - University of
Edinburgh\Documents\esrc_complex_families_may_2020\data_clean"
```

In [8]:

```
* temp
```

In [9]:

```
global path3 "C:\Users\vgayle\OneDrive - University of
Edinburgh\Documents\esrc_complex_families_may_2020\temp"
```

## Wave A (UKHLS)

In [10]:

```
use "$path1\a_indall.dta", clear
numlabel _all, add
```

(Information for all persons in household, incl. children and non-respondents)

In [11]:

```
* codebook, compact
```

In [11]:

```
summarize a_age_dv
```

```
    Variable |        Obs        Mean    Std. Dev.        Min        Max
-------------+--------------------------------------------------------
    a_age_dv |     77,309    36.04416    22.59591         -9        101
```

Selecting children under age 11

In [12]:

```
keep if a_age_dv<11
tab a_age_dv, missing
summarize a_age_dv
```

(64,921 observations deleted)

```
    Age, derived |
 from dob_dv and |
       intdat_dv |      Freq.     Percent        Cum.
-----------------+---------------------------------
    -9. missing |         57        0.46        0.46
              0 |      1,218        9.83       10.29
              1 |      1,135        9.16       19.45
              2 |      1,204        9.72       29.17
              3 |      1,197        9.66       38.84
              4 |      1,125        9.08       47.92
              5 |      1,110        8.96       56.88
              6 |      1,047        8.45       65.33
              7 |      1,050        8.48       73.81
              8 |      1,108        8.94       82.75
              9 |      1,019        8.23       90.98
             10 |      1,118        9.02      100.00
-----------------+---------------------------------
          Total |     12,388      100.00
```

```
    Variable |        Obs        Mean    Std. Dev.        Min        Max
-------------+--------------------------------------------------------
    a_age_dv |     12,388    4.804488    3.307771         -9         10
```

In [13]:

```
drop if a_age_dv==-9
tab a_age_dv, missing
```

(57 observations deleted)

```
  Age, derived |
from dob_dv and |
     intdat_dv |      Freq.      Percent        Cum.
----------------+-----------------------------------
            0 |      1,218         9.88         9.88
            1 |      1,135         9.20        19.08
            2 |      1,204         9.76        28.85
            3 |      1,197         9.71        38.55
            4 |      1,125         9.12        47.68
            5 |      1,110         9.00        56.68
            6 |      1,047         8.49        65.17
            7 |      1,050         8.52        73.68
            8 |      1,108         8.99        82.67
            9 |      1,019         8.26        90.93
           10 |      1,118         9.07       100.00
----------------+-----------------------------------
        Total |     12,331       100.00
```

In [14]:

```
display  12,388-57
```

12 331

**Number of children (kids) under 11 in wave a = 12,331.**

In [15]:

```
summarize pidp a_hidp a_pno a_dvage a_age_dv a_birthy
```

```
    Variable |        Obs         Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        pidp |     12,331     8.47e+08     4.70e+08    6.80e+07   1.63e+09
      a_hidp |     12,331     8.47e+08     4.70e+08    6.80e+07   1.63e+09
       a_pno |     12,331     3.796124     1.290412           1         14
     a_dvage |     12,331     4.884843     3.225739           0         58
    a_age_dv |     12,331     4.868299     3.179136           0         10
-------------+--------------------------------------------------------
    a_birthy |     12,331     1978.121     227.0277          -2       2011
```

**Discrepancy between a*dvage* and a_age_dv ?**

In [16]:

```
list pidp a_hidp a_pno a_birthy a_intdaty_dv  a_age_dv a_dvage if a_dvage>10
```

```
      +--------------------------------------------------------------------------+
      |        pidp       a_hidp   a_pno       a_birthy   a_i~y_dv   a_age_dv   a_dvage |
      |--------------------------------------------------------------------------|
   9. |    68029939     68029923       4           1993       2009          5        15 |
  54. |    68158459     68158443       4           1997       2009         10        11 |
2552. |   342475899    342475883       4     -2. refusal      2009         10        11 |
2970. |   409415779    409415763       4           1998       2009         10        11 |
3284. |   476690895    476690883       3           1997       2009          1        11 |
      |--------------------------------------------------------------------------|
6362. |   884464459    884464443       4     -2. refusal      2010         10        11 |
6659. |   885684379    885684363       4           1952       2010          0        58 |
6704. |   886142027    886142003       6           1982       2010          2        27 |
7629. |  1021560635   1021560603       8           1998       2010         10        11 |
7879. |  1088469895   1088469883       3           1999       2010         10        11 |
      |--------------------------------------------------------------------------|
7880. |  1088469899   1088469883       4           1999       2010         10        11 |
8251. |  1156096579   1156096563       4           1998       2010         10        12 |
8719. |  1158346023   1158346003       5   -1. don't know     2010         10        11 |
10613.|  1429158059   1429158043       4   -1. don't know     2010         10        12 |
      +--------------------------------------------------------------------------+
```

**Discrepancies**

The salient examples are...

pidp 885684379 ; 886142027 and 68029939 appear to have errors in a_age_dv given their date of birth a_birthy
These respondents are all much older than 11 years old.

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## Understanding Society Documentation

**Sample member's age at time of the interview, derived.**

The selection above was undertaken using the code keep if a_age_dv<11

**Sample member's age at time of the interview, derived.**
https://www.understandingsociety.ac.uk/documentation/mainstage/dataset-documentation/variable/age_dv

Derived from date of birth held in the sample administration data base and the derived date of interview. Recoded to missing for sample members whose interview outcome is inconsistent with the suggested age +/- one year. DOB month (a_DOBM_DV) is made available in UKDS SN6931 only. DOB day (a_DOBD_DV) is made available in UKDS SN6676 only

**The age of the respondent at last birthday.**
https://www.understandingsociety.ac.uk/documentation/mainstage/dataset-documentation/variable/dvage

This is derived from the exact date of birth and the date of the interview.
Where the date of birth information is missing, the estimated age is used. Note the change in definition in Wave 6.

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**Checking the Complete Age Range a_indall.dta**

In [17]:
```
use "$path1\a_indall.dta", clear
numlabel _all, add
```

(Information for all persons in household, incl. children and non-respondents)

In [18]:
```
count
corr  a_age_dv a_dvage
```

  77,309

(obs=77,309)

```
            | a_age_dv  a_dvage
------------+------------------
   a_age_dv |   1.0000
    a_dvage |   0.9992   1.0000
```

In [19]:
```
count if a_age_dv != a_dvage
```

  2,055

In [20]:

```
count
summarize a_age_dv a_dvage
```

```
  77,309


    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    a_age_dv |     77,309    36.04416    22.59591        -9        101
     a_dvage |     77,309    36.04984    22.58171        -9        101
```

In [21]:

```
* age at interview

summarize a_age_dv
tab a_age_dv if a_age_dv<0, missing
```

```
    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    a_age_dv |     77,309    36.04416    22.59591        -9        101


    Age, derived |
 from dob_dv and |
      intdat_dv |      Freq.     Percent        Cum.
----------------+-----------------------------------
    -9. missing |         57      100.00      100.00
----------------+-----------------------------------
          Total |         57      100.00
```

In [22]:

```
* age at interview

mvdecode a_age_dv, mv(-9)
```

```
    a_age_dv: 57 missing values generated
```

In [23]:

```
* age at last birthday

summarize a_dvage
tab a_dvage, missing
```

```
    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
     a_dvage |     77,309    36.04984    22.58171        -9        101


   age for whole |
    sample, from |
  birth or ageif |      Freq.     Percent        Cum.
----------------+-----------------------------------
    -9. missing |         49        0.06        0.06
              0 |      1,213        1.57        1.63
              1 |      1,127        1.46        3.09
              2 |      1,216        1.57        4.66
              3 |      1,196        1.55        6.21
              4 |      1,127        1.46        7.67
              5 |      1,106        1.43        9.10
              6 |      1,046        1.35       10.45
              7 |      1,041        1.35       11.80
              8 |      1,114        1.44       13.24
              9 |      1,014        1.31       14.55
             10 |      1,133        1.47       16.02
             11 |      1,107        1.43       17.45
             12 |      1,055        1.36       18.81
```

| | | | |
|---|---|---|---|
| 13 | 1,121 | 1.45 | 20.26 |
| 14 | 1,067 | 1.38 | 21.64 |
| 15 | 1,144 | 1.48 | 23.12 |
| 16 | 1,186 | 1.53 | 24.66 |
| 17 | 1,131 | 1.46 | 26.12 |
| 18 | 1,070 | 1.38 | 27.50 |
| 19 | 1,117 | 1.44 | 28.95 |
| 20 | 1,069 | 1.38 | 30.33 |
| 21 | 1,026 | 1.33 | 31.66 |
| 22 | 1,039 | 1.34 | 33.00 |
| 23 | 1,048 | 1.36 | 34.36 |
| 24 | 1,035 | 1.34 | 35.70 |
| 25 | 1,008 | 1.30 | 37.00 |
| 26 | 1,007 | 1.30 | 38.30 |
| 27 | 1,020 | 1.32 | 39.62 |
| 28 | 1,034 | 1.34 | 40.96 |
| 29 | 1,116 | 1.44 | 42.40 |
| 30 | 1,077 | 1.39 | 43.80 |
| 31 | 1,000 | 1.29 | 45.09 |
| 32 | 992 | 1.28 | 46.37 |
| 33 | 1,019 | 1.32 | 47.69 |
| 34 | 981 | 1.27 | 48.96 |
| 35 | 1,077 | 1.39 | 50.35 |
| 36 | 1,125 | 1.46 | 51.81 |
| 37 | 1,031 | 1.33 | 53.14 |
| 38 | 1,103 | 1.43 | 54.57 |
| 39 | 1,199 | 1.55 | 56.12 |
| 40 | 1,236 | 1.60 | 57.72 |
| 41 | 1,165 | 1.51 | 59.23 |
| 42 | 1,181 | 1.53 | 60.75 |
| 43 | 1,059 | 1.37 | 62.12 |
| 44 | 1,127 | 1.46 | 63.58 |
| 45 | 1,110 | 1.44 | 65.02 |
| 46 | 1,080 | 1.40 | 66.41 |
| 47 | 1,074 | 1.39 | 67.80 |
| 48 | 1,064 | 1.38 | 69.18 |
| 49 | 1,006 | 1.30 | 70.48 |
| 50 | 1,051 | 1.36 | 71.84 |
| 51 | 923 | 1.19 | 73.03 |
| 52 | 953 | 1.23 | 74.27 |
| 53 | 869 | 1.12 | 75.39 |
| 54 | 916 | 1.18 | 76.58 |
| 55 | 849 | 1.10 | 77.67 |
| 56 | 857 | 1.11 | 78.78 |
| 57 | 802 | 1.04 | 79.82 |
| 58 | 860 | 1.11 | 80.93 |
| 59 | 778 | 1.01 | 81.94 |
| 60 | 742 | 0.96 | 82.90 |
| 61 | 901 | 1.17 | 84.06 |
| 62 | 896 | 1.16 | 85.22 |
| 63 | 856 | 1.11 | 86.33 |
| 64 | 746 | 0.96 | 87.30 |
| 65 | 686 | 0.89 | 88.18 |
| 66 | 704 | 0.91 | 89.09 |
| 67 | 637 | 0.82 | 89.92 |
| 68 | 560 | 0.72 | 90.64 |
| 69 | 617 | 0.80 | 91.44 |
| 70 | 626 | 0.81 | 92.25 |
| 71 | 543 | 0.70 | 92.95 |
| 72 | 544 | 0.70 | 93.66 |
| 73 | 491 | 0.64 | 94.29 |
| 74 | 457 | 0.59 | 94.88 |
| 75 | 438 | 0.57 | 95.45 |
| 76 | 398 | 0.51 | 95.96 |
| 77 | 382 | 0.49 | 96.46 |
| 78 | 358 | 0.46 | 96.92 |
| 79 | 310 | 0.40 | 97.32 |
| 80 | 310 | 0.40 | 97.72 |
| 81 | 293 | 0.38 | 98.10 |
| 82 | 235 | 0.30 | 98.41 |
| 83 | 225 | 0.29 | 98.70 |
| 84 | 190 | 0.25 | 98.94 |
| 85 | 160 | 0.21 | 99.15 |
| 86 | 147 | 0.19 | 99.34 |
| 87 | 120 | 0.16 | 99.49 |
| 88 | 92 | 0.12 | 99.61 |
| 89 | 81 | 0.10 | 99.72 |

```
           90 |          60        0.08        99.80
           91 |          40        0.05        99.85
           92 |          29        0.04        99.88
           93 |          20        0.03        99.91
           94 |          25        0.03        99.94
           95 |          15        0.02        99.96
           96 |          14        0.02        99.98
           97 |           7        0.01        99.99
           98 |           4        0.01        99.99
           99 |           2        0.00       100.00
          100 |           1        0.00       100.00
          101 |           1        0.00       100.00
----------------+---------------------------------
        Total |      77,309      100.00
```

In [24]:

```
* age at last birthday

mvdecode a_dvage, mv(-9)
```

```
    a_dvage: 49 missing values generated
```

In [25]:

```
count if a_age_dv != a_dvage
```

```
  2,055
```

In [26]:

```
count if a_dvage>(a_age_dv+2)
list pidp a_hidp a_pno a_birthy a_intdaty_dv  a_age_dv a_dvage if a_dvage>(a_age_dv+2)
```

```
   205
```

```
       +-----------------------------------------------------------------------------+
       |        pidp       a_hidp   a_pno        a_birthy   a_i~y_dv   a_age_dv   a_dvage |
       |-----------------------------------------------------------------------------|
    52. |    68029939     68029923       4            1993       2009          5        15 |
   584. |    68294455     68294443       3            1990       2009         18        28 |
  1296. |    68646691     68646683       2            1933       2009         70        75 |
  2952. |    70463651     70463643       2            1972       2009         33        36 |
  3541. |   136288327    136288323       1            1970       2009         32        38 |
       |-----------------------------------------------------------------------------|
  5469. |   137276435    137276431       1            1968       2009         40        50 |
  5858. |   137868647    137868643       1   -1. don't know      2009         48        58 |
  5859. |   137868651    137868643       2   -1. don't know      2009         38        55 |
  5863. |   137868667    137868643       6   -1. don't know      2009         11        14 |
  6141. |   138711171    138711163       2            1939       2009         66        69 |
       |-----------------------------------------------------------------------------|
  6291. |   138790731    138790723       2            1969       2009         36        39 |
  6516. |   204065303    204065283       5            2003       2009          3         6 |
  6897. |   204255699    204255683       4            1992       2009         16        26 |
  7769. |   204711967    204711963       1            1977       2009         32        38 |
  8682. |   205199531    205199523       2            1968       2009         35        41 |
       |-----------------------------------------------------------------------------|
  9000. |   205445691    205445683       2            1940       2009         58        68 |
  9015. |   205450459    205450443       4            1988       2009         17        21 |
  9016. |   205450463    205450443       5            1989       2009         15        19 |
  9021. |   205451135    205451123       3            1982       2009         21        26 |
  9185. |   205810859    205810843       4            1953       2009         46        56 |
       |-----------------------------------------------------------------------------|
  9204. |   205825811    205825803       2   -1. don't know      2009         33        37 |
  9543. |   206461607    206461603       1            1947       2009         55        61 |
 10143. |   272092491    272092483       2            1983       2009         16        26 |
 10545. |   272303967    272303963       1            1968       2009         26        40 |
 11468. |   272723531    272723523       2            1949       2009         49        59 |
       |-----------------------------------------------------------------------------|
 11669. |   272818047    272818043       1            1944       2009         65        75 |
 11835. |   272937055    272937043       3   -1. don't know      2009         53        56 |
```

```
12160. |  273115887    273115883      1           1956       2009       42       52 |
12328. |  273194091    273194083      2           1972       2009       31       36 |
13004. |  274353487    274353483      1           1967       2009       37       41 |
       |----------------------------------------------------------------------------|
13431. |  340034687    340034683      1           1965       2009       41       44 |
14401. |  340529059    340529043      4      -2. refusal     2009       15       18 |
14402. |  340529063    340529043      5      -2. refusal     2009       13       17 |
15042. |  340869735    340869723      3      -2. refusal     2009       22       25 |
15154. |  340924811    340924803      2      -2. refusal     2009       45       50 |
       |----------------------------------------------------------------------------|
15155. |  340924815    340924803      3      -2. refusal     2009       42       50 |
15683. |  341200219    341200203      4           1980       2009       19       29 |
16352. |  342285511    342285483      7    -1. don't know    2009       20       23 |
16995. |  408161171    408161163      2           1952       2009       54       57 |
17251. |  408295811    408295803      2           1973       2009       25       35 |
       |----------------------------------------------------------------------------|
17469. |  408382175    408382163      3           1939       2009       42       69 |
18063. |  408686135    408686123      3           1988       2009       11       21 |
18297. |  408830291    408830283      2      -2. refusal     2009       35       38 |
18694. |  409043127    409043123      1           1943       2009       61       66 |
19271. |  409410331    409410323      2           1968       2009       38       41 |
       |----------------------------------------------------------------------------|
19527. |  409889063    409889043      5           1963       2009       45       52 |
20292. |  476144851    476144843      2           1979       2009       29       38 |
21290. |  476654851    476654843      2           1927       2009       62       82 |
21351. |  476690895    476690883      3           1997       2009        1       11 |
21420. |  476727611    476727603      2           1929       2009       77       80 |
       |----------------------------------------------------------------------------|
22035. |  477090047    477090043      1           1961       2009       47       57 |
22289. |  477219935    477219923      3           1960       2009       45       49 |
22663. |  477717691    477717683      2    -1. don't know    2009       22       36 |
22665. |  477717699    477717683      4    -1. don't know    2009       25       31 |
22722. |  477916247    477916243      1           1976       2009       33       36 |
       |----------------------------------------------------------------------------|
22805. |  478108015    478108003      3           2003       2009        1        6 |
22813. |  478133239    478133231      2    -1. don't know    2009       26       30 |
22814. |  478133243    478133231      3    -1. don't know    2009       26       30 |
23270. |  544009543    544009523      5           2001       2009        5        8 |
24333. |  544510691    544510683      2           1973       2009       31       36 |
       |----------------------------------------------------------------------------|
24424. |  544550815    544550803      3      -2. refusal     2009       25       30 |
24771. |  544735771    544735763      2           1969       2009       39       49 |
25979. |  545520499    545520483      4           1994       2009       11       14 |
26054. |  545781611    545781603      2           1980       2009       26       29 |
26092. |  545812215    545812203      3           1982       2009       20       27 |
       |----------------------------------------------------------------------------|
26093. |  545812219    545812203      4           1984       2009       17       25 |
27247. |  612212171    612212163      2           1969       2009       31       39 |
28718. |  612922091    612922083      2    -1. don't know    2009       48       57 |
29713. |  613677571    613677563      2      -2. refusal     2009       43       48 |
30817. |  680246171    680246163      2      -2. refusal     2009       48       60 |
       |----------------------------------------------------------------------------|
31158. |  680393051    680393043      2           1981       2009       18       28 |
31392. |  680513415    680513403      3      -2. refusal     2009       26       30 |
31614. |  680624931    680624923      2           1957       2009       52       55 |
31738. |  680702451    680702443      2           1965       2009       40       44 |
31988. |  680876531    680876523      2           1979       2009       20       29 |
       |----------------------------------------------------------------------------|
32002. |  680888771    680888763      2           1973       2009       36       39 |
32018. |  680894219    680894203      4      -2. refusal     2009       86       90 |
32060. |  680923451    680923443      2           1965       2009       41       44 |
32716. |  681240327    681240323      1           1964       2009       44       54 |
32861. |  681319895    681319883      3           2000       2009        5        9 |
       |----------------------------------------------------------------------------|
34115. |  748297847    748297843      1    -1. don't know    2009       28       32 |
34361. |  748425687    748425683      1           1979       2009       26       30 |
35451. |  748990767    748990763      1           1970       2009       36       39 |
36173. |  749486491    749486483      2           1969       2009       35       40 |
36198. |  749570807    749570803      1           1928       2009       70       80 |
       |----------------------------------------------------------------------------|
36413. |  750213415    750213403      3           1966       2009       36       43 |
36433. |  750246059    750246043      4           1992       2010       14       17 |
37747. |  816456967    816456963      1      -2. refusal     2009       33       42 |
37748. |  816456971    816456963      2      -2. refusal     2009       44       48 |
38230. |  816707215    816707203      3    -1. don't know    2010       21       32 |
       |----------------------------------------------------------------------------|
38648. |  816923451    816923443      2           1999       2010        7       10 |
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39554. |  817482407   817482403      1          1961      2009      43      48 |
39727. |  817771407   817771403      1          1973      2010      32      36 |
41885. |  884824171   884824163      2          1987      2010      20      23 |
42049. |  884935011   884935003      2          1959      2010      30      50 |
       |------------------------------------------------------------------------|
42225. |  885034975   885034963      3   -1. don't know   2010      24      30 |
42278. |  885056063   885056043      5          2000      2010       4       9 |
42400. |  885107731   885107723      2    -2. refusal     2010      25      30 |
42993. |  885683015   885683003      3    -2. refusal     2010      30      40 |
42998. |  885684379   885684363      4          1952      2010       0      58 |
       |------------------------------------------------------------------------|
43002. |  885684395   885684363      8    -2. refusal     2010       2       5 |
43209. |  886142027   886142003      6          1982      2010       2      27 |
43229. |  886161735   886161723      3   -1. don't know   2010      48      55 |
43249. |  886188247   886188243      1          1982      2010      23      28 |
43330. |  886360967   886360963      1          1959      2010      40      50 |
       |------------------------------------------------------------------------|
44698. |  952679331   952679323      2    -2. refusal     2010      26      40 |
45115. |  952941131   952941123      2          1957      2010      42      52 |
45599. |  953213127   953213123      1          1928      2010      79      82 |
46147. |  953915571   953915563      2          1979      2010      27      30 |
46157. |  953918975   953918963      3          1983      2010      24      27 |
       |------------------------------------------------------------------------|
46158. |  953918979   953918963      4          1974      2010      32      36 |
46382. |  954393611   954393603      2   -1. don't know   2010      49      56 |
46383. |  954393615   954393603      3   -1. don't know   2010      59      63 |
46513. | 1020029251  1020029243      2          1966      2010      39      43 |
46725. | 1020151647  1020151643      1          1965      2010      35      45 |
       |------------------------------------------------------------------------|
47685. | 1020668451  1020668443      2          1956      2010      37      53 |
47935. | 1020808543  1020808523      5    -2. refusal     2010      23      27 |
47969. | 1020824167  1020824163      1          1976      2010      21      33 |
48851. | 1021287927  1021287923      1          1940      2010      63      70 |
49075. | 1021548375  1021548363      3          1921      2010      80      88 |
       |------------------------------------------------------------------------|
49191. | 1021684375  1021684363      3          1970      2010      30      39 |
49225. | 1021730607  1021730603      1          1925      2010      74      84 |
49480. | 1022473851  1022473843      2          2000      2010       2       9 |
49488. | 1022477251  1022477243      2   -1. don't know   2010      53      57 |
49664. | 1088055767  1088055763      1          1922      2010      82      87 |
       |------------------------------------------------------------------------|
50453. | 1088467175  1088467163      3    -2. refusal     2010      54      60 |
51578. | 1089081207  1089081203      1          1923      2010      78      87 |
52043. | 1089417819  1089417803      4   -1. don't know   2010      47      52 |
52047. | 1089419851  1089419843      2          1963      2010      43      47 |
52308. | 1090028455  1090028443      3    -2. refusal     2010      21      25 |
       |------------------------------------------------------------------------|
52453. | 1090539131  1090539123      2    -2. refusal     2010      31      34 |
52701. | 1156094531  1156094523      2          1981      2010      25      28 |
53273. | 1156396447  1156396443      1          1930      2010      77      80 |
53482. | 1156492327  1156492323      1   -1. don't know   2010      59      65 |
53725. | 1156628395  1156628391      1          1947      2010      54      62 |
       |------------------------------------------------------------------------|
54182. | 1156879931  1156879923      2   -1. don't know   2010      43      46 |
54207. | 1156898291  1156898283      2    -2. refusal     2010      26      30 |
55100. | 1157447055  1157447043      3          1976      2010      15      33 |
55143. | 1157487167  1157487163      1          1980      2010      27      30 |
55171. | 1157542255  1157542243      3          1982      2010      17      27 |
       |------------------------------------------------------------------------|
55232. | 1157755771  1157755763      2   -1. don't know   2010      22      84 |
55235. | 1157755783  1157755763      5   -1. don't know   2010      29      83 |
55423. | 1157927807  1157927803      1          1967      2010      33      42 |
55424. | 1157927811  1157927803      2          1975      2010      28      35 |
55704. | 1158542527  1158542523      1   -1. don't know   2010      32      45 |
       |------------------------------------------------------------------------|
55710. | 1158552727  1158552723      1   -1. don't know   2010      52      55 |
55711. | 1158552731  1158552723      2   -1. don't know   2010      38      50 |
55878. | 1224049651  1224049643      2          1952      2010      47      57 |
56434. | 1224344771  1224344763      2          1959      2010      50      53 |
57616. | 1225015251  1225015243      2          1965      2010      41      44 |
       |------------------------------------------------------------------------|
58217. | 1225422567  1225422563      1          1974      2010      25      35 |
58352. | 1225717699  1225717683      4          1975      2010      30      34 |
58362. | 1225749651  1225749643      2          1970      2010      35      40 |
58819. | 1226535051  1226535043      2          2001      2010       3       8 |
59004. | 1292014983  1292014963      5          2000      2010       7      10 |
       |------------------------------------------------------------------------|
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59602. | 1292380135   1292380123      3           1942        2010        65        68 |
60458. | 1292822127   1292822123      1           1970        2010        33        39 |
60468. | 1292826887   1292826883      1           1974        2010        33        36 |
60521. | 1292859535   1292859523      3           1971        2010        32        39 |
60584. | 1292903731   1292903723      2     -2. refusal       2010        51        60 |
       |-----------------------------------------------------------------------------|
61395. | 1293391975   1293391963      3           1978        2010        24        32 |
61444. | 1293532731   1293532723      2   -1. don't know      2010        47        75 |
61445. | 1293532735   1293532723      3   -1. don't know      2010        69        75 |
61446. | 1293532739   1293532723      4   -1. don't know      2010        22        25 |
61447. | 1293532743   1293532723      5   -1. don't know      2010        15        20 |
       |-----------------------------------------------------------------------------|
61472. | 1293595287   1293595283      1           1960        2010        46        49 |
61722. | 1293869327   1293869323      1           1937        2010        62        72 |
61910. | 1294273247   1294273243      1           1975        2010        31        35 |
61985. | 1294392935   1294392923      3           1952        2010        53        58 |
62113. | 1360047607   1360047603      1           1940        2010        66        69 |
       |-----------------------------------------------------------------------------|
62141. | 1360059167   1360059163      1           1932        2010        72        78 |
62976. | 1360456967   1360456963      1           1960        2010        46        49 |
63570. | 1360804447   1360804443      1     -2. refusal       2010        49        60 |
64794. | 1361987659   1361987643      4   -1. don't know      2010        62        65 |
65021. | 1362580615   1362580603      3           1989        2010        17        21 |
       |-----------------------------------------------------------------------------|
65036. | 1362591495   1362591483      3   -1. don't know      2010        22        25 |
65265. | 1428117651   1428117643      2           1960        2010        45        50 |
65624. | 1428312811   1428312803      2           1969        2010        38        41 |
66401. | 1428746655   1428746643      3           1980        2010        20        29 |
66569. | 1428845931   1428845923      2   -1. don't know      2010        23        30 |
       |-----------------------------------------------------------------------------|
66877. | 1429015927   1429015923      1     -2. refusal       2010        71        77 |
67279. | 1429202927   1429202923      1           1954        2010        46        56 |
67562. | 1429479691   1429479683      2           1932        2010        51        78 |
67846. | 1429881567   1429881563      1           1953        2010        41        57 |
68182. | 1496012263   1496012243      5           2001        2010         0         9 |
       |-----------------------------------------------------------------------------|
68632. | 1496248207   1496248203      1           1960        2010        47        50 |
69839. | 1496878567   1496878563      1     -2. refusal       2010        51        55 |
69903. | 1496905087   1496905083      1           1953        2010        46        56 |
70061. | 1496983291   1496983283      2           1983        2010        23        27 |
70739. | 1497658527   1497658523      1     -2. refusal       2010        44        48 |
       |-----------------------------------------------------------------------------|
70796. | 1497698647   1497698643      1           1957        2011        49        53 |
70898. | 1497825811   1497825803      2   -1. don't know      2010        70        75 |
71011. | 1498044091   1498044083      2           1958        2010        48        52 |
71212. | 1498489491   1498489483      2           1965        2010        35        45 |
72907. | 1564866343   1564866323      5           1982        2011        18        28 |
       |-----------------------------------------------------------------------------|
73881. | 1565463379   1565463363      4           1979        2010        21        31 |
73885. | 1565471539   1565471523      4           1981        2010        19        29 |
74304. | 1566283447   1566283443      1           1967        2010        40        43 |
74808. | 1632169335   1632169323      3           2001        2011         0         9 |
74845. | 1632210135   1632210123      3           1979        2011        21        31 |
       |-----------------------------------------------------------------------------|
76853. | 1633366811   1633366803      2           1968        2011        39        42 |
77148. | 1634365047   1634365043      1           1975        2010        27        35 |
77163. | 1634373227   1634373203      6           2000        2011         6        10 |
77274. | 1634619367   1634619363      1           1953        2011        52        57 |
77277. | 1634619379   1634619363      4           1992        2011        16        19 |
       +-----------------------------------------------------------------------------+
```

**Discrepancies**

1. 205 cases identified if a_dvage>(a_age_dv+2) ie. age at last birthday is greater than age at interview by +2 years.

   For example
   pidp 68029939

   a_hidp 68029923

   a_pno 4
```
   a birthy 1993
```

```
          a_birthy 1993
          a_intdaty_dv 2009
          a_age_dv 5
          a_dvage 15
```

In [27]:

```
count if a_dvage<(a_age_dv-2)
list pidp a_hidp a_pno a_birthy a_intdaty_dv  a_age_dv a_dvage if a_dvage<(a_age_dv-2)
```

   218

```
        +-----------------------------------------------------------------------------+
        |          pidp         a_hidp    a_pno        a_birthy    a_i~y_dv    a_age_dv    a_dvage |
        |-----------------------------------------------------------------------------|
   760. |      68372651       68372643      2            1957        2009          57         51 |
   785. |      68378779       68378763      4    -1. don't know        2009          69         65 |
  1197. |      68595023       68595003      5            2003        2009           8          5 |
  1216. |      68605211       68605203      2      -2. refusal        2009          39         30 |
  2541. |      69396051       69396043      2            1950        2009          64         58 |
        |-----------------------------------------------------------------------------|
  2554. |      69406263       69406243      5    -1. don't know        2009          43         40 |
  2887. |      70275287       70275283      1            1950        2009          62         59 |
  2888. |      70275291       70275283      2      -2. refusal        2009          67         60 |
  2896. |      70305211       70305203      2      -2. refusal        2009          78         60 |
  3131. |     136080931      136080923      2            1959        2009          58         49 |
        |-----------------------------------------------------------------------------|
  3355. |     136193811      136193803      2            1957        2009          57         51 |
  3920. |     136499811      136499803      2            1950        2009          59         54 |
  4923. |     136981247      136981243      1            1960        2009          48         38 |
  5284. |     137177087      137177083      1            1957        2009          55         51 |
  5848. |     137865939      137865923      4            1974        2009          38         35 |
        |-----------------------------------------------------------------------------|
  5896. |     137936647      137936643      1            1991        2009          47         17 |
  6036. |     138365047      138365043      1            1984        2009          33         24 |
  6175. |     138736327      138736323      1            1949        2009          75         59 |
  6288. |     138790047      138790043      1            1945        2009          73         63 |
  7060. |     204331171      204331163      2            1972        2009          39         36 |
        |-----------------------------------------------------------------------------|
  7877. |     204762971      204762963      2            1948        2009          64         60 |
  7894. |     204771815      204771803      3    -1. don't know        2009          48         43 |
  8604. |     205160091      205160083      2            1920        2009          88         66 |
  9094. |     205598011      205598003      2            1968        2009          43         40 |
  9183. |     205810851      205810843      2            1989        2009          26         19 |
        |-----------------------------------------------------------------------------|
  9276. |     205934615      205934603      3            2007        2009           9          2 |
  9631. |     206507171      206507163      2            1974        2009          40         35 |
 10524. |     272295807      272295803      1            1947        2009          68         61 |
 10525. |     272295811      272295803      2            1949        2009          68         60 |
 11278. |     272634447      272634443      1      -2. refusal        2009          87         77 |
        |-----------------------------------------------------------------------------|
 11549. |     272766383      272766363      5    -1. don't know        2009           .         15 |
 11942. |     273003691      273003683      2    -1. don't know        2009          43         35 |
 12967. |     274240611      274240603      2    -1. don't know        2009          34         30 |
 13216. |     274509891      274509883      2            1933        2009          78         75 |
 13217. |     274509895      274509883      3            1937        2009          87         72 |
        |-----------------------------------------------------------------------------|
 14841. |     340754131      340754123      2            1997        2009          14         11 |
 15028. |     340860211      340860203      2            1985        2009          23         19 |
 16022. |     341593935      341593923      3            1992        2009          23         16 |
 16080. |     341657847      341657843      1            1986        2009          41         23 |
 16297. |     342167847      342167843      1            1977        2009          41         31 |
        |-----------------------------------------------------------------------------|
 16316. |     342233811      342233803      2            1998        2009           .         11 |
 16349. |     342285499      342285483      4    -1. don't know        2009          33         25 |
 16435. |     342485415      342485403      3            1993        2009           .         15 |
 16994. |     408161167      408161163      1            1955        2009          57         54 |
 17412. |     408359735      408359723      3            1993        2009           .         15 |
        |-----------------------------------------------------------------------------|
 17790. |     408543327      408543323      1            1934        2009          78         74 |
 18267. |     408818047      408818043      1            1953        2009          67         56 |
 18300. |     408835047      408835043      1      -2. refusal        2009          57         48 |
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18695. |  409043131    409043123    2          1948    2009    66    61 |
19038. |  409225371    409225363    2          1947    2009    68    62 |
       |------------------------------------------------------------------|
19512. |  409848255    409848243    3          1986    2009    31    23 |
19548. |  409902655    409902643    3   -1. don't know    2009    31    28 |
19611. |  410103251    410103243    2   -1. don't know    2009    29    21 |
19613. |  410103259    410103243    4   -1. don't know    2009    28    23 |
20186. |  476073447    476073443    1          1987    2009    27    21 |
       |------------------------------------------------------------------|
20356. |  476178851    476178843    2          1945    2009    66    63 |
21124. |  476592287    476592283    1          1938    2009    75    70 |
21534. |  476782691    476782683    2          1933    2009    97    76 |
21737. |  476911887    476911883    1   -1. don't know    2009    60    56 |
22584. |  477492615    477492603    3      -2. refusal    2009    96    70 |
       |------------------------------------------------------------------|
22664. |  477717695    477717683    3          1987    2009    27    21 |
22806. |  478108019    478108003    4          2006    2009     6     2 |
23041. |  478645907    478645883    6          1993    2009     .    15 |
24263. |  544481451    544481443    2          2004    2009     9     5 |
24270. |  544486207    544486203    1          1939    2009    78    70 |
       |------------------------------------------------------------------|
24757. |  544728295    544728283    3          1960    2009    55    49 |
24906. |  544811251    544811243    2          1960    2009    72    49 |
24932. |  544822807    544822803    1          1963    2009    49    46 |
25431. |  545109087    545109083    1      -2. refusal    2009    76    70 |
26023. |  545714291    545714283    2      -2. refusal    2009    78    65 |
       |------------------------------------------------------------------|
26096. |  545812231    545812203    7          1986    2009    27    23 |
26265. |  546000579    546000563    4          1999    2009    13    10 |
27079. |  612123099    612123083    4          1998    2009    16    11 |
27243. |  612210811    612210803    2      -2. refusal    2009    72    60 |
27450. |  612302623    612302603    5      -2. refusal    2009     5     1 |
       |------------------------------------------------------------------|
27610. |  612367891    612367883    2          1937    2009    76    72 |
29646. |  613575575    613575563    3      -2. refusal    2009    86    76 |
29675. |  613654447    613654443    1          1980    2009    29    24 |
29716. |  613677583    613677563    5      -2. refusal    2009    15    12 |
30307. |  614656091    614656083    2          1993    2009    39    16 |
       |------------------------------------------------------------------|
31356. |  680484847    680484843    1          1948    2009    65    61 |
31867. |  680796967    680796963    1          1962    2009    57    46 |
31868. |  680796971    680796963    2          1966    2009    52    43 |
32457. |  681123371    681123363    2          1976    2009    36    33 |
32744. |  681259367    681259363    1          1967    2009    52    42 |
       |------------------------------------------------------------------|
33133. |  681965895    681965883    3          1947    2009    70    62 |
33176. |  682031171    682031163    2          1966    2009    52    42 |
35325. |  748910527    748910523    1          1951    2009    58    50 |
35464. |  748996887    748996883    1   -1. don't know    2010    49    46 |
35465. |  748996891    748996883    2   -1. don't know    2010    49    46 |
       |------------------------------------------------------------------|
35483. |  749006407    749006403    1          1959    2009    50    40 |
36147. |  749433459    749433443    4          2005    2009     9     4 |
36168. |  749471527    749471523    1          1959    2009    58    50 |
36449. |  750296371    750296363    2          1974    2009    38    34 |
36450. |  750296375    750296363    3          2008    2009    13     2 |
       |------------------------------------------------------------------|
37142. |  816142131    816142123    2          1949    2009    64    60 |
38278. |  816731015    816731003    3          1954    2010    63    55 |
38652. |  816924811    816924803    2          1965    2010    56    44 |
38656. |  816927531    816927523    2      -2. refusal    2009    29    25 |
39531. |  817456571    817456563    2   -1. don't know    2009    77    72 |
       |------------------------------------------------------------------|
39728. |  817771411    817771403    2          1978    2010    36    32 |
39729. |  817771415    817771403    3          1997    2010     .    12 |
39730. |  817771419    817771403    4          2009    2010     8     0 |
39731. |  817771423    817771403    5          2009    2010    12     0 |
39754. |  817810847    817810843    1          1988    2009    29    21 |
       |------------------------------------------------------------------|
39902. |  817993783    817993763    5          1929    2009    88    80 |
40067. |  818498327    818498323    1          1983    2010    35    26 |
41644. |  884707899    884707883    4          1994    2010     .    15 |
41722. |  884748007    884748003    1          1968    2010    44    41 |
41884. |  884824167    884824163    1          1988    2010    41    21 |
       |------------------------------------------------------------------|
42495. |  885161451    885161443    2          1958    2010    58    51 |
42823. |  885408295    885408283    3   -1. don't know    2010    39    22 |
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42824. |  885408299   885408283      4   -1. don't know    2010      16       0 |
42825. |  885408303   885408283      5   -1. don't know    2010      13       0 |
42826. |  885408307   885408283      6   -1. don't know    2010       8       0 |
       |----------------------------------------------------------------------------|
42985. |  885676891   885676883      2             1976    2010      37      33 |
43015. |  885723807   885723803      1             1987    2010      28      22 |
43088. |  885927807   885927803      1             1968    2010      44      41 |
43247. |  886186887   886186883      1             1966    2010      57      43 |
43248. |  886186891   886186883      2             1968    2010      57      41 |
       |----------------------------------------------------------------------------|
43250. |  886188251   886188243      2             1964    2010      49      46 |
43332. |  886367767   886367763      1             1982    2010      31      27 |
43360. |  886448695   886448683      3             1993    2010      19      16 |
43877. |  952230531   952230523      2   -1. don't know    2010      60      34 |
45039. |  952871771   952871763      2             1971    2010      47      38 |
       |----------------------------------------------------------------------------|
45433. |  953122007   953122003      1       -2. refusal    2010      65      60 |
45526. |  953178447   953178443      1             1958    2010      78      51 |
45546. |  953187287   953187283      1             1935    2010      78      74 |
45869. |  953424611   953424603      2             1956    2010      57      54 |
46093. |  953840087   953840083      1             1971    2010      41      38 |
       |----------------------------------------------------------------------------|
46191. |  953932567   953932563      1             1976    2010      36      33 |
46433. |  954496971   954496963      2             1981    2010      33      28 |
46764. | 1020176127  1020176123      1             1976    2010      37      34 |
47508. | 1020577327  1020577323      1             1931    2010      89      79 |
47932. | 1020808531  1020808523      2       -2. refusal    2010      34      30 |
       |----------------------------------------------------------------------------|
49108. | 1021560615  1021560603      3             1958    2010      56      52 |
49159. | 1021630659  1021630643      4             1998    2010      16      12 |
49224. | 1021725851  1021725843      2   -1. don't know    2010      69      62 |
49347. | 1022143367  1022143363      1             1978    2010      35      32 |
49687. | 1088067331  1088067323      2             1955    2010      59      54 |
       |----------------------------------------------------------------------------|
50554. | 1088510691  1088510683      2       -2. refusal    2010      81      75 |
50621. | 1088542651  1088542643      2             1969    2010      43      40 |
50638. | 1088549455  1088549443      3             1957    2010      56      53 |
50641. | 1088549467  1088549443      6             2008    2010       5       2 |
51133. | 1088828927  1088828923      1       -2. refusal    2010      51      41 |
       |----------------------------------------------------------------------------|
51181. | 1088867687  1088867683      1       -2. refusal    2010      69      60 |
51224. | 1088899651  1088899643      2             1964    2010      48      45 |
52042. | 1089417815  1089417803      3   -1. don't know    2010      57      54 |
52236. | 1089918967  1089918963      1             1965    2010      54      44 |
52403. | 1090405847  1090405843      1   -1. don't know    2010      41      28 |
       |----------------------------------------------------------------------------|
52863. | 1156184967  1156184963      1             1947    2010      82      62 |
53944. | 1156728299  1156728283      4             1980    2010      33      30 |
54205. | 1156896247  1156896243      1             1991    2010      46      18 |
54219. | 1156908487  1156908483      1             1955    2010      66      55 |
54220. | 1156908491  1156908483      2             1962    2010      58      48 |
       |----------------------------------------------------------------------------|
54240. | 1156913939  1156913923      4             1985    2010      31      25 |
54575. | 1157100247  1157100243      1             1980    2010      32      29 |
54657. | 1157143087  1157143083      1             1939    2010      75      71 |
55078. | 1157438219  1157438203      4             1976    2010      73      34 |
55129. | 1157472211  1157472203      2             1958    2010      59      51 |
       |----------------------------------------------------------------------------|
55409. | 1157917607  1157917603      1             1955    2010      58      55 |
55410. | 1157917611  1157917603      2             1968    2010      55      42 |
55534. | 1158177367  1158177363      1             1985    2010      37      24 |
55720. | 1158560207  1158560203      1             1966    2010      48      44 |
57696. | 1225054011  1225054003      2       -2. refusal    2010      55      52 |
       |----------------------------------------------------------------------------|
57811. | 1225130171  1225130163      2       -2. refusal    2010      94      40 |
57955. | 1225198859  1225198843      4   -1. don't know    2010      53      40 |
58266. | 1225466095  1225466083      3             1939    2010      74      71 |
58353. | 1225717703  1225717683      5             1978    2010      34      31 |
58377. | 1225760535  1225760523      3             1984    2010      30      26 |
       |----------------------------------------------------------------------------|
58435. | 1225812219  1225812203      4             1977    2010      36      33 |
58861. | 1226692815  1226692803      3   -1. don't know    2010      74      65 |
59161. | 1292121735  1292121723      3             2009    2010      11       1 |
59749. | 1292468527  1292468523      1             1981    2010      33      29 |
59750. | 1292468531  1292468523      2   -1. don't know    2010      28      25 |
       |----------------------------------------------------------------------------|
60344. | 1292766367  1292766363      1             1935    2010      74      46 |
```

```
60345. | 1292766371   1292766363      2           1932        2010       78       49 |
61548. | 1293706131   1293706123      2           1956        2010       58       54 |
61641. | 1293795207   1293795203      1           1973        2010       42       37 |
61988. | 1294392947   1294392923      6   -1. don't know      2010       93       90 |
       |----------------------------------------------------------------------------|
63242. | 1360606571   1360606563      2           1943        2010       71       67 |
63571. | 1360804451   1360804443      2     -2. refusal       2010       44       40 |
64180. | 1361170291   1361170283      2           1960        2010       54       50 |
64522. | 1361457247   1361457243      1           1964        2010       49       46 |
65023. | 1362580623   1362580603      5           2000        2010        .       10 |
       |----------------------------------------------------------------------------|
65450. | 1428219663   1428219643      5           2004        2010        9        6 |
65528. | 1428268607   1428268603      1           1960        2010       53       50 |
66455. | 1428781327   1428781323      1           1952        2010       62       58 |
66456. | 1428781331   1428781323      2           1954        2010       62       56 |
67541. | 1429372247   1429372243      1     -2. refusal       2010       49       35 |
       |----------------------------------------------------------------------------|
67838. | 1429868647   1429868643      1           1968        2010       66       42 |
67841. | 1429876815   1429876803      3   -1. don't know      2010       51       44 |
67845. | 1429879531   1429879523      2           1967        2010       49       43 |
68011. | 1430235847   1430235843      1           1969        2010       43       40 |
70714. | 1497635411   1497635403      2           1986        2010       27       23 |
       |----------------------------------------------------------------------------|
70797. | 1497698651   1497698643      2           1971        2011       49       39 |
70897. | 1497825807   1497825803      1           1962        2010       78       48 |
70983. | 1497972707   1497972683      6           1966        2010       76       44 |
71519. | 1564097927   1564097923      1           1973        2010       40       37 |
72186. | 1564465131   1564465123      2     -2. refusal       2010       36       30 |
       |----------------------------------------------------------------------------|
73804. | 1565355931   1565355923      2           1954        2010       59       56 |
73805. | 1565355935   1565355923      3           1958        2010       56       52 |
73866. | 1565450455   1565450443      3   -1. don't know      2011       32       24 |
73912. | 1565521855   1565521843      3   -1. don't know      2011       96       40 |
74083. | 1565851647   1565851643      1           1968        2010       45       42 |
       |----------------------------------------------------------------------------|
74084. | 1565851651   1565851643      2           1962        2010       53       48 |
74091. | 1565852331   1565852323      2           1965        2010       48       45 |
74166. | 1565998531   1565998523      2   -1. don't know      2011       34       31 |
74752. | 1632141455   1632141443      3           1974        2010       41       36 |
75451. | 1632501171   1632501163      2           1969        2011       41       38 |
       |----------------------------------------------------------------------------|
76048. | 1632837771   1632837763      2           1975        2011       45       35 |
76184. | 1632913251   1632913243      2     -2. refusal       2011       67       60 |
76213. | 1632926855   1632926843      3           1957        2011       56       53 |
76988. | 1633766655   1633766643      3           1965        2011       48       45 |
77149. | 1634365051   1634365043      2           1978        2010       67       32 |
       |----------------------------------------------------------------------------|
77150. | 1634365055   1634365043      3   -1. don't know      2010       48       41 |
77158. | 1634373207   1634373203      1           1974        2011       40       36 |
77160. | 1634373215   1634373203      3           2008        2011       13        2 |
       +----------------------------------------------------------------------------+
```

**Discrepancies**

1. 218 cases identified if a_dvage<(a_age_dv-2) ie. age at last birthday is lower than age at interview by -2 years.

For example
pidp 68372651

a_hidp 68372643

a_pno 2

a_birthy 1957
a_intdaty_dv 2009
a_age_dv 57
a_dvage 51

## Wave i (UKHLS)

In [28]:

```
* raw data
* there are individual wave sub-folders for the UKHLS
```

In [29]:

```
global path1i "C:\Users\vgayle\OneDrive - University of
Edinburgh\Documents\esrc_complex_families_may_2020\data_raw\UKDA-6614-
stata\stata\stata11_se\ukhls_w9"
```

In [30]:

```
* clean data
```

In [31]:

```
global path2 "C:\Users\vgayle\OneDrive - University of
Edinburgh\Documents\esrc_complex_families_may_2020\data_clean"
```

In [32]:

```
* temp
```

In [33]:

```
global path3 "C:\Users\vgayle\OneDrive - University of
Edinburgh\Documents\esrc_complex_families_may_2020\temp"
```

In [34]:

```
use "$path1i\i_indall.dta", clear
numlabel _all, add
```

(Information for all persons in household, incl. children and non-respondents)

In [35]:

```
count
corr  i_age_dv i_dvage
```

```
  52,691

(obs=52,691)

            | i_age_dv  i_dvage
------------+------------------
   i_age_dv |   1.0000
    i_dvage |   0.9993   1.0000
```

In [36]:

```
count if i_age_dv != i_dvage
```

```
  1,242
```

In [10]:

```
list pidp i_hidp i_pno i_birthy i_intdaty_dv  i_age_dv i_dvage if i_age_dv>(i_dvage+2)
```

```
      +--------------------------------------------------------------------------------+
```

```
            |        pidp      i_hidp   i_pno         i_birthy   i_i~y_dv   i_age_dv            i_dvage |
            |---------------------------------------------------------------------------------------------|
    625. |    68595023    70148816       3             2003       2017         16                 13 |
   7024. |   206842496   206842416       2   -1. don't know       2017         28   -1. don't know |
  10477. |   340041616   340041496       3   -1. don't know       2017         30   -1. don't know |
  11273. |   340877972   340707216       2      -9. missing       2017         53      -9. missing |
  14325. |   409999292   409645616       2      -9. missing       2017         47      -9. missing |
            |---------------------------------------------------------------------------------------------|
  17431. |   483928892   482670816       2      -9. missing       2017         53      -9. missing |
  23704. |   680918130   680782016       3      -9. missing       2017         38      -9. missing |
  23705. |   680918170   680782016       4      -9. missing       2017         65      -9. missing |
  29507. |   818441450   817959096       2      -9. missing       2017         25      -9. missing |
  33150. |   953187287   956093616       1             1935       2018         86                 82 |
            |---------------------------------------------------------------------------------------------|
  33758. |   960017372   958861216       2      -9. missing       2018         23      -9. missing |
  33759. |   960017412   958861216       3      -9. missing       2018         22      -9. missing |
  33791. |   962703250   957385616       1             1981       2018         85                 36 |
  33931. |   966674450   958324016       1             1967       2018         77                 51 |
  34050. |   971624970   958861216       1      -9. missing       2018         22      -9. missing |
            |---------------------------------------------------------------------------------------------|
  35951. |  1036415370  1026154016       2      -9. missing       2018         49      -9. missing |
  39265. |  1166825690  1161514816       2      -9. missing       2018         56                 51 |
  40906. |  1226536496  1226536416       2      -2. refusal       2018         29                 26 |
  42171. |  1292795732  1292605216       3      -9. missing       2018         66      -9. missing |
  42985. |  1302553890  1296984416       2             1981       2018         43                 37 |
            |---------------------------------------------------------------------------------------------|
  46390. |  1431767372  1431168816       5      -9. missing       2018         29      -9. missing |
  48299. |  1501773454  1501100016       6      -9. missing       2018         28      -9. missing |
            +---------------------------------------------------------------------------------------------+
```

**Discrepancies**

1. In i_indall.dta 1,242 where i_age_dv is not equal to i_dvage.

   For example

   pidp 68595023
   i_hidp 70148816
   i_pno 3
   i_birthy 2003
   i_intdaty_dv 2017
   i_age_dv 16
   i_dvage 13

---

# Wave b Youth (UKHLS)

In [37]:

```
* raw data
* there are individual wave sub-folders for the UKHLS
```

In [38]:

```
global path1 "C:\Users\vgayle\OneDrive - University of
Edinburgh\Documents\esrc_complex_families_may_2020\data_raw\UKDA-6614-
stata\stata\stata11_se\ukhls_w2"
```

In [39]:

```
* clean data
```

In [40]:

```
global path2 "C:\Users\vgayle\OneDrive - University of
```

```
Edinburgh\Documents\esrc_complex_families_may_2020\data_clean"
```

In [41]:

```
* temp
```

In [42]:

```
global path3 "C:\Users\vgayle\OneDrive - University of
Edinburgh\Documents\esrc_complex_families_may_2020\temp"
```

In [43]:

```
use "$path1\b_youth.dta", clear
numlabel _all, add
```

(Substantive data from youth questionnaire)

In [44]:

```
count
```

  5,018

In [49]:

```
codebook, compact
```

```
Variable        Obs Unique       Mean       Min       Max  Label
---------------------------------------------------------------------------------------------
---------------------------------------------------------------------------------------------
--------------------------------------------------
pidp           5018   5018   7.66e+08  6.80e+07  1.64e+09  cross-wave person identifier (public rele
ase)
pid            5018   1097   2.08e+07        -8  1.85e+08  personal identifier (BHPS cohort)
b_hidp         5018   3780   7.74e+08  6.80e+07  1.64e+09  household identifier (public release)
b_pno          5018      9   3.442208         1         9  person number
b_hhorig       5018      7   2.512156         1         7  Sample origin, household
b_memorig      5018      7   2.512156         1         7  Sample origin, individual
b_psu          5018   2579   6356.746         2     51533  Primary sampling unit
b_strata       5018   1458   2276.369         1      4738  Strata
b_sampst       5018      3   1.065365         1         3  sample status
b_ivfio        5018      2    21.0002        21        22  Individual level outcome
b_sex          5018      2   1.495616         1         2  sex
b_dvage        5018      6   12.52451        10        15  age (computed)
b_ypdoby       5018      9   1999.005      1994      9999  date of birth:year
b_ypsex        5018      2   1.495616         1         2  gender of youth
b_yptvvidhrs   5018      6   2.964926        -9         5  hours spent watching tv on a school day
b_yptvvidhrw   5018      6   3.428458        -9         5  hours spent watching tv on a weekend
including video and dvds
b_ypsocweb     5018      3   1.236947        -9         2  do you belong to a social web-site such a
s bebo, facebook or myspace?
b_ypnetcht     5018      6  -.4932244        -9         5  Hours using social media on weekdays
b_ypmulpgms    5018      3   1.317856        -9         2  ever play multiplayer online games
b_ypeatlivu    5018      5   3.093464        -9         4  how many times in last 7 days eaten
evening meal with family
b_yphrshswrk   5018      6   2.359506        -9         5  how many hours do you spend doing or
helping with housework in an average wee
b_yplate       5018      5   1.173177        -9         4  past month: times out after 9.00 pm
b_ypnpal       5018     52   6.564169        -9        97  number of close friends
b_ypsbfgf      5018      3   1.787764        -9         2  has steady boyfriend or girfriend
b_ypesta       5018      5   1.642288        -9         4  i feel i have a number of good qualities.
b_ypesti       5018      5   2.984257        -9         4  i don't have much to be proud of
b_ypestb       5018      5   2.625947        -9         4  i certainly feel useless at times
b_ypestj       5018      5   1.681746        -9         4  i am as able as most people
b_ypestc       5018      5   1.584496        -9         4  i am a likeable person
b_ypestk       5018      5   1.773615        -9         4  i can usually solve my own problems
b_ypeste       5018      5   3.090076        -9         4  i am inclined to feel i am a failure
b_ypestf       5018      5   2.897768        -9         4  at times i feel i am no good at all
```

```
b_ypfparty     5018     7   4.48326    -9        6  go to a party, dance, disco or nightclub
b_ypfcinema    5018     7   3.691511   -9        6  go to the cinema
b_ypfpaint     5018     7   3.277601   -9        6  how often do painting, drawing,
printmaking or sculpture
b_ypftheatre   5018     7   5.084695   -9        6  go to the theatre
b_ypfpcart     5018     7   4.005779   -9        6  use a computer to create original
artworks or animation
b_ypflvespt    5018     7   4.809685   -9        6  go to watch live sport
b_ypfgo2pub    5018     7   5.070745   -9        6  go to a pub or bar
b_ypfhnghm     5018     7   2.969111   -9        6  how often hang around near home
b_ypfhngtn     5018     7   4.215424   -9        6  how often hang around in town centre
b_ypfythclub   5018     7   3.811678   -9        6  go to youth clubs, scouts, girl guides or
other organised activities
b_ypflibrary   5018     7   4.539657   -9        6  go to a library
b_ypfmuseum    5018     7   4.849342   -9        6  go to museums or galleries
b_ypfhistplc   5018     7   4.843962   -9        6  go to visit an historic place or stately
home
b_ypfvolunt    5018     7   4.521124   -9        6  do voluntary or community work
b_ypfpolitm    5018     7   5.536469   -9        6  go to a political meeting/march, rally or
demonstration
b_ypnbuks      5018    58   3.775608   -9       97  past month: num books read for pleasure
b_ypdisbuk     5018     5   2.717218   -9        4  frequency of discussing books at home
b_ypdistv      5018     5   1.860901   -9        4  frequency of discussing tv at home
b_ypgetbuk     5018     5   2.243324   -9        4  frequency of adults giving books as
presents
b_ypfadmus     5018     5   2.812674   -9        4  frequency of adults taking to museums or
art galleries
b_ypfadspt     5018     5   2.817656   -9        4  frequency of adults taking to watch live
sport
b_ypfadttr     5018     5   3.032483   -9        4  frequency of adults taking to see
theatre, dance performance or classical musi
b_ypmusinst    5018     3   1.48346    -9        2  do you play a musical instrument?
b_yposclas1    5018     3  -.1881228   -9        1  music
b_yposclas2    5018     3  -.2915504   -9        1  art
b_yposclas3    5018     3  -.2214029   -9        1  dance
b_yposclas4    5018     3   .1173774   -9        1  sport
b_yposclas5    5018     3  -.2995217   -9        1  tutorials for school subjects
b_yposclas6    5018     3  -.2845755   -9        1  religious classes
b_yposclas7    5018     3  -.1410921   -9        1  none of these
b_yposclas8    5018     3  -.1590275   -9        1  other
b_yphsw        5018     8   2.437226   -9        7  feel about your school work?
b_yphap        5018     8   2.559585   -9        7  feel about your appearance?
b_yphfm        5018     8   1.531686   -9        7  feel about your family?
b_yphfr        5018     8   1.533081   -9        7  feel about your friends?
b_yphsc        5018     8   2.248107   -9        7  feel about your school?
b_yphlf        5018     8   1.96672    -9        7  feel about your life as a whole?
b_yphmwrk      5018     3   .9559585   -9        2  ever set homework at school
b_ypfhmwrk     5018     6   1.118772   -9        5  how often set homework
b_ypfhweve     5018     9   2.351933   -9        7  how many evenings do homework
b_yphmwkhrs    5018    29   1.367278   -9       89  how many hours spent helping with or
doing homework
b_yphmwkwe     5018    27   1.16381    -9       97  how many hours homework at weekends
b_yphmwkhlp    5018     3   .7684336   -9        2  does anyone at home help with homework
b_yphmwkwho1   5018     3   .351933    -9        1  mum or stepmum
b_yphmwkwho2   5018     3   .1143882   -9        1  dad or stepdad
b_yphmwkwho3   5018     3  -.079713    -9        1  a brother or sister
b_yphmwkwho4   5018     3  -.2718214   -9        1  another relative living with you
b_yphmwkwho5   5018     3  -.2915504   -9        1  any non-relative living with you
b_yphmwkwho6   5018     3  -.1803507   -9        1  no-one, i do it myself
b_ypacvwell    5018     5   .8993623   -9        4  importance of doing well in gcse's or
standard grades
b_yplvsc2do    5018     6   1.293344   -9        5  what would most like to do at 16
b_yp2uni       5018     3  -1.337385   -9        2  would like to go to college/university
b_yptruant     5018     3   1.716022   -9        2  whether has ever played truant
b_ypsrhlth     5018     6   2.092268   -9        5  would you say your health is
b_ypfrutppd    5018     5   2.225189   -9        4  portions of fresh fruit and vegetables
per day
b_yphlwtr      5018     5   1.070147   -9        4  personal view of weight for height
b_yptrydiet    5018     4   2.381626   -9        3  ever diet or try to lose weight
b_ypextype1    5018     3   .5663611   -9        1  walking, including walking the dog
b_ypextype2    5018     3   .2903547   -9        1  swimming or diving
b_ypextype3    5018     3   .339179    -9        1  cycling
b_ypextype4    5018     3   .3563173   -9        1  jogging or running
b_ypextype5    5018     3   .1249502   -9        1  tennis, squash or badminton
b_ypextype6    5018     3   .0625747   -9        1  keep fit, aerobics or gym training
b_ypextype7    5018     3   .3330012   -9        1  football
b_ypextype8    5018     3   .0502192   -9        1  rugby
```

```
b_ypextype9     5018      3     .1867278       -9           1   netball, basketball or hockey
b_ypextype10    5018      3     .0593862       -9           1   cricket
b_ypextype11    5018      3     .0892786       -9           1   athletics
b_ypextype12    5018      3    -.0398565       -9           1   martial arts
b_ypextype13    5018      3    -.0583898       -9           1   horse riding
b_ypextype14    5018      3    -.0143483       -9           1   gymnastics
b_ypextype15    5018      3     .1363093       -9           1   dance
b_ypextype16    5018      3     .1225588       -9           1   other type of sport or activity
b_yppsprt       5018      7     2.744918       -9           6   how often play sport, aerobics, keep fit
b_yptrvl2sch    5018      7      1.92507       -9           6   main means of travel to school
b_ypevrsmo      5018      3     1.745715       -9           2   ever smoke cigarettes at all
b_ypsmofrq      5018      6     -8.01933       -9           5   frequency of smoking
b_ypevralc      5018      3     1.539458       -9           2   ever had an alcoholic drink
b_ypdklm        5018      7     4.745715       -9           6   past month: how many alcoholic drinks?
b_yp5alcdr      5018      7    -3.210642       -9           6   frequency of 5 plus alcoholic drinks
b_ypdrnklt      5018      8     .8850139       -9           7   how many times intoxicated in lifetime
b_ypdrnky       5018      8     .3182543       -9           7   on how many occasions have you been
intoxicated or drunk - during the last 12
b_ypdrnk4w      5018      8     .1972898       -9           7   how many times intoxicated in last 4
weeks
b_ypdrgsol      5018      3     1.641092       -9           2   ever tried: glue/solvent sniffing
b_ypdrgmj       5018      3     1.614587       -9           2   ever tried: cannabis
b_ypdrgoth      5018      3     1.604623       -9           2   ever tried: other drugs
b_ypfrdrg       5018      6     .9176963       -9           5   frequency of drug use
b_ypeasmj       5018      6    -1.422479       -9           5   ease of obtaining cannabis
b_ypsmrsk1      5018      5     2.032284       -9           4   cigarette smoking: perceived risk of
smoking occasionally
b_ypsmrsk2      5018      5     2.606815       -9           4   cigarette smoking: perceived risk of one
or more packs per day
b_ypalcrsk1     5018      5     1.834595       -9           4   have one or two alcoholic drinks nearly e
very day
b_ypalcrsk2     5018      5     2.501196       -9           4   have four or five alcoholic drinks nearly
every day
b_ypalcrsk3     5018      5     2.056198       -9           4   have five or more alcoholic drinks each w
eekend
b_ypmjrsk1      5018      5     1.384018       -9           4   cannabis: perceived risk try once or
twice
b_ypmjrsk2      5018      5     1.742128       -9           4   cannabis: perceived risk smoke
occasionally
b_ypmjrsk3      5018      5     1.994022       -9           4   cannabis: perceived risk smoke regularly
b_ypersk1       5018      5     .9840574       -9           4   ecstasy: perceived risk try once or twice
b_ypamrsk1      5018      5     .7861698       -9           4   amphetamine: perceived risk try once or t
wice
b_ypamrsk2      5018      5     .8284177       -9           4   amphetamine: perceived risk take
regularly
b_ypamar        5018     43     20.89358       -9          97   at what age do you want to get married?
b_ypapar        5018     44     21.41112       -9          69   at what age do you want to start a
family?
b_ypfutatxt     5018      3     1.102431       -9           2   what would you like to be doing in 10
years time?
b_intdatd_if    5018      1            1        1           1   Interview date: Day, imputation flag
b_intdatm_if    5018      1            1        1           1   Interview date: Month, imputation flag
b_intdaty_if    5018      1            1        1           1   Interview date: Year, imputation flag
b_doby_if       5018      1            0        0           0   DOB Year imputation flag
b_age_if        5018      1            1        1           1   Imputation flag for age_dv
b_fnpid         5018   2410     4.90e+08       -8    1.63e+09   Natural father: PIDP
b_mnpid         5018   3595     7.24e+08       -8    1.63e+09   Natural mother: PIDP
b_pn1pid        5018   3733     7.47e+08       -8    1.63e+09   Natural parent 1: PIDP
b_pn1pno        5018      8     1.053009        0           7   Natural parent 1: PNO
b_pn1sex        5018      3     1.452571       -8           2   Natural parent 1: Sex
b_pn2pid        5018   2281     4.67e+08       -8    1.63e+09   Natural parent 2: PIDP
b_pn2pno        5018      9     1.269031        0           9   Natural parent 2: PNO
b_pn2sex        5018      3    -2.200877       -8           2   Natural parent 2: Sex
b_pns1pid       5018   3734     7.52e+08       -8    1.63e+09   Nat/step/adopt parent 1: PIDP
b_pns1pno       5018      8     1.021523        0           7   Nat/step/adopt parent 1: PNO
b_pns1sex       5018      3      1.48605       -8           2   Nat/step/adopt parent 1: Sex
b_pns2pid       5018   2670     5.46e+08       -8    1.63e+09   Nat/step/adopt parent 2: PIDP
b_pns2pno       5018      9      1.51953        0           9   Nat/step/adopt parent 2: PNO
b_pns2sex       5018      3    -1.233758       -8           2   Nat/step/adopt parent 2: Sex
b_grfpid        5018     59     1.06e+07       -8    1.63e+09   Grandfather: PIDP
b_grmpid        5018    112     2.37e+07       -8    1.63e+09   Grandmother: PIDP
b_sex_dv        5018      3     1.494819        0           2   Sex, derived
b_age_dv        5018      8      12.5269        9          16   Age, derived from dob_dv and intdat_dv
b_intdatd_dv    5018     31     15.94619        1          31   Interview date: Day, derived
b_intdatm_dv    5018     12     6.263452        1          12   Interview date: Month, derived
b_intdaty_dv    5018      3     2010.453     2010        2012   Interview date: Year, derived
b_doby_dv       5018      8     1997.409     1994        2001   DOB: Year, derived
```

```
b_npn_dv        5018       3   1.589279          0        2   Number of R's natural parents in hh
b_npns_dv       5018       4   1.698884          0        3   Number of R's nat/step/adopt parents in h
h
b_ngrp_dv       5018       4   .0422479          0        3   Number of R's grandparents in hh
b_nnsib_dv      5018      10   1.427461          0       10   Number of R's natural siblings in hh
b_nnssib_dv     5018      10   1.570745          0       10   Number of R's nat/step/adopt siblings in
hh
b_yphlhtm_dv    5018       4  -2.364488         -9        4   Unit of current height
b_yphlhtf_dv    5018       6  -2.407334         -9        6   Height in feet and inches: feet
b_yphlhti_dv    5018      16   -2.39458         -9       50   Height in feet and inches: inches
b_yphlhtcm~v    5018      32    71.2234       -297      193   Height in cm, derived
b_yphlwtm_dv    5018       4  -2.453567         -9        4   Unit of current weight
b_yphlwts_dv    5018      16  -.1349143         -9       15   Weight in stones and pounds: stones
b_yphlwtp_dv    5018      45  -1.666002         -9      206   Weight in stones and pounds: pounds
b_yphlwtk_dv    5018      68  -1.512356         -9       95   Weight reported in kg
b_yphlwtkg~v    5018      76   26.29653         -9       98   Weight in kg, derived
b_ypbmi_dv      5018     192   1.806277         -9     33.7   Body Mass Index
b_ethn_dv       5018      19   3.321642         -9       97   Ethnic group (derived from multiple
sources)
b_country       5018       5    1.48047         -9        4   Country of residence
b_gor_dv        5018      13   6.743523         -9       12   Government Office Region
b_urban_dv      5018       3   1.216222         -9        2   Urban or rural area, derived
b_hhresp_dv     5018       4   1.358709          1        9   Household response status
b_agegr5_dv     5018       3   3.161419          2        4   Age group (age_dv): 5 year intervals
b_agegr10_dv    5018       2   1.999601          1        2   Age group (age_dv): 10 year intervals
b_agegr13_dv    5018       2   1.000399          1        2   Age group (age_dv): 13 categories
b_buno_dv       5018       8   1.001196         -9        7   benefit unit number
b_adresp15~v    5018      10   1.357114         -9        9   PNO of person responsible for child under
16
b_rach16_dv     5018       2  -7.996014         -8        2   Whether responsible for child under 16
b_hrpid         5018    3780   7.66e+08    6.80e+07 1.63e+09   Household reference person: PIDP
b_hrpno         5018       9   1.394978          1        9   Household reference person: PNO
b_fnpno         5018       9   .9990036          0        8   Natural father: PNO
b_fnspid        5018    2755   5.61e+08         -8 1.63e+09   Nat/step/adopt father: PIDP
b_fnspno        5018       9   1.192308          0        8   Nat/step/adopt father: PNO
b_mnpno         5018       9   1.322439          0        9   Natural mother: PNO
b_mnspid        5018    3646   7.36e+08         -8 1.63e+09   Nat/step/adopt mother: PIDP
b_mnspno        5018       9   1.347748          0        9   Nat/step/adopt mother: PNO
b_grfpno        5018       8   .0388601          0        8   Grandfather: PNO
b_grmpno        5018      10   .0833001          0        9   Grandfather: PNO
b_ythscus_xw    5018    3461   .7724193          0 3.630322   cross-sectional youth self-completion wei
ght
b_ythscbh_xw    5018     887   .2128338          0 4.500476   cross-sectional BHPS youth interview weig
ht
b_ythscub_xw    5018    4346   .9852531          0 3.117831   BHPS+UKHLS cross-sectional youth intervie
w weight
--------------------------------------------------------------------------------------------------
--------------------------------------------------------------------------------------------------
------------------------------------------------
```

```
lookfor age
```

```
              storage   display    value
variable name  type     format     label      variable label
--------------------------------------------------------------------------------------------------
--------------------------------------------------------------------------------------------------
------------------------------------------------
b_dvage       byte      %16.0g     b_dvage    age (computed)
b_yphrshswrk  byte      %25.0g     b_yphrshswrk
                                              how many hours do you spend doing or helping with
housework in an average wee
b_ypamar      byte      %16.0g     b_ypamar   at what age do you want to get married?
b_ypapar      byte      %16.0g     b_ypapar   at what age do you want to start a family?
b_age_if      byte      %19.0g     b_age_if   Imputation flag for age_dv
b_age_dv      byte      %16.0g     b_age_dv   Age, derived from dob_dv and intdat_dv
b_agegr5_dv   byte      %21.0g     b_agegr5_dv
                                              Age group (age_dv): 5 year intervals
b_agegr10_dv  byte      %20.0g     b_agegr10_dv
                                              Age group (age_dv): 10 year intervals
b_agegr13_dv  byte      %21.0g     b_agegr13_dv
                                              Age group (age_dv): 13 categories
```

```
tab1 b_dvage b_age_if b_age_dv b_agegr5_dv b_agegr10_dv b_agegr13_dv, missing
```

-> tabulation of b_dvage

| age (computed) | Freq. | Percent | Cum. |
|---|---|---|---|
| 10 | 756 | 15.07 | 15.07 |
| 11 | 854 | 17.02 | 32.08 |
| 12 | 877 | 17.48 | 49.56 |
| 13 | 873 | 17.40 | 66.96 |
| 14 | 849 | 16.92 | 83.88 |
| 15 | 809 | 16.12 | 100.00 |
| Total | 5,018 | 100.00 | |

-> tabulation of b_age_if

| Imputation flag for age_dv | Freq. | Percent | Cum. |
|---|---|---|---|
| 1. (partly) imputed | 5,018 | 100.00 | 100.00 |
| Total | 5,018 | 100.00 | |

-> tabulation of b_age_dv

| Age, derived from dob_dv and intdat_dv | Freq. | Percent | Cum. |
|---|---|---|---|
| 9 | 2 | 0.04 | 0.04 |
| 10 | 755 | 15.05 | 15.09 |
| 11 | 849 | 16.92 | 32.00 |
| 12 | 876 | 17.46 | 49.46 |
| 13 | 877 | 17.48 | 66.94 |
| 14 | 847 | 16.88 | 83.82 |
| 15 | 810 | 16.14 | 99.96 |
| 16 | 2 | 0.04 | 100.00 |
| Total | 5,018 | 100.00 | |

-> tabulation of b_agegr5_dv

| Age group (age_dv): 5 year intervals | Freq. | Percent | Cum. |
|---|---|---|---|
| 2. 5-9 years old | 2 | 0.04 | 0.04 |
| 3. 10-14 years old | 4,204 | 83.78 | 83.82 |
| 4. 15-19 years old | 812 | 16.18 | 100.00 |
| Total | 5,018 | 100.00 | |

-> tabulation of b_agegr10_dv

| Age group (age_dv): 10 year intervals | Freq. | Percent | Cum. |
|---|---|---|---|
| 1. 0-9 years old | 2 | 0.04 | 0.04 |
| 2. 10-19 years old | 5,016 | 99.96 | 100.00 |
| Total | 5,018 | 100.00 | |

-> tabulation of b_agegr13_dv

| Age group (age_dv): 13 categories | Freq. | Percent | Cum. |
|---|---|---|---|
| 1. 0-15 years old | 5,016 | 99.96 | 99.96 |
| 2. 16-17 years old | 2 | 0.04 | 100.00 |
| Total | 5,018 | 100.00 | |

```stata
tab b_dvage b_age_dv
```

```
                |                        Age, derived from dob_dv and intdat_dv
age (computed)  |         9         10         11         12         13         14         15
     16 |    Total
----------------+-----------------------------------------------------------------------------
---+----------
           10 |         2        752          2          0          0          0          0
      0 |      756
           11 |         0          3        845          5          0          0          1
      0 |      854
           12 |         0          0          2        870          4          0          1
      0 |      877
           13 |         0          0          0          1        870          0          1
      1 |      873
           14 |         0          0          0          0          3        843          3
      0 |      849
           15 |         0          0          0          0          0          4        804
      1 |      809
----------------+-----------------------------------------------------------------------------
---+----------
        Total |         2        755        849        876        877        847        810
      2 |    5,018
```

In [53]:

```stata
lookfor interview
```

```
              storage   display    value
variable name    type   format     label      variable label
-------------------------------------------------------------------------------------------------
-------------------------------------------------------------------------------------------------
-------------------------------------------------
b_intdatd_if    byte    %18.0g     b_intdatd_if
                                              Interview date: Day, imputation flag
b_intdatm_if    byte    %18.0g     b_intdatm_if
                                              Interview date: Month, imputation flag
b_intdaty_if    byte    %18.0g     b_intdaty_if
                                              Interview date: Year, imputation flag
b_intdatd_dv    byte    %16.0g     b_intdatd_dv
                                              Interview date: Day, derived
b_intdatm_dv    byte    %16.0g     b_intdatm_dv
                                              Interview date: Month, derived
b_intdaty_dv    int     %16.0g     b_intdaty_dv
                                              Interview date: Year, derived
b_ythscbh_xw    double  %9.0g                 cross-sectional BHPS youth interview weight
b_ythscub_xw    double  %9.0g                 BHPS+UKHLS cross-sectional youth interview weight
```

In [54]:

```stata
lookfor birth
```

```
              storage   display    value
variable name    type   format     label      variable label
-------------------------------------------------------------------------------------------------
-------------------------------------------------------------------------------------------------
-------------------------------------------------
b_ypdoby        int     %16.0g     b_ypdoby   date of birth:year
```

In [56]:

```stata
summarize b_dvage b_age_dv
```

```
    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
     b_dvage |     5,018    12.52451    1.673313         10         15
    b_age_dv |     5,018     12.5269      1.6753          9         16
```

In [57]:

```stata
tab1 b_dvage, missing
```

```
tabl b_dvage, missing
```

-> tabulation of b_dvage

| age (computed) | Freq. | Percent | Cum. |
|---|---|---|---|
| 10 | 756 | 15.07 | 15.07 |
| 11 | 854 | 17.02 | 32.08 |
| 12 | 877 | 17.48 | 49.56 |
| 13 | 873 | 17.40 | 66.96 |
| 14 | 849 | 16.92 | 83.88 |
| 15 | 809 | 16.12 | 100.00 |
| Total | 5,018 | 100.00 | |

In [58]:

```
count if b_age_dv != b_dvage
```

   34

In [59]:

```
list pidp b_hidp b_pno b_ypdoby b_intdaty_dv  b_age_dv b_dvage if b_age_dv> (b_dvage+2)
```

```
      +------------------------------------------------------------------------+
      |      pidp      b_hidp    b_pno   b_ypdoby   b_i~y_dv   b_age_dv   b_dvage |
      |------------------------------------------------------------------------|
 578. | 204400535   206176002       3       1999       2010         15        11 |
1139. | 340754131   344195602       2       1997       2010         15        12 |
2700. | 749904802   749904682       3       1997       2011         16        13 |
      +------------------------------------------------------------------------+
```

**Discrepancies**

1. In b_youth.dta 34 cases where b_age_dv is not equal to b_dvage

   For example

   pidp 204400535
   b_hidp 206176002
   b_pno 3
   b_ypdoby 1999
   b_intdaty_dv 2010
   b_age_dv 15
   b_dvag 11

In [60]:

```
count if b_age_dv< (b_dvage-1)
```

   0

---

# Wave b indresp (UKHLS)

In [61]:

```
* raw data
* there are individual wave sub-folders for the UKHLS
```

In [62]:

```
global path1 "C:\Users\vgayle\OneDrive - University of
Edinburgh\Documents\esrc_complex_families_may_2020\data_raw\UKDA-6614-
stata\stata\stata11_se\ukhls_w2"
```

In [63]:

```
* clean data
```

In [64]:

```
global path2 "C:\Users\vgayle\OneDrive - University of
Edinburgh\Documents\esrc_complex_families_may_2020\data_clean"
```

In [65]:

```
* temp
```

In [66]:

```
global path3 "C:\Users\vgayle\OneDrive - University of
Edinburgh\Documents\esrc_complex_families_may_2020\temp"
```

In [67]:

```
use "$path1\b_indresp.dta", clear
numlabel _all, add
```

(Substantive data for responding adults (16+), incl. proxies)

In [68]:

```
count
```

   54,569

In [69]:

```
count if b_age_dv != b_dvage
```

   470

In [70]:

```
list pidp b_hidp b_pno b_birthy b_intdaty_dv  b_age_dv b_dvage if b_age_dv>(b_dvage+2)
```

```
        +---------------------------------------------------------------------------+
        |      pidp       b_hidp   b_pno       b_birthy   b_i~y_dv   b_age_dv   b_dvage |
        |---------------------------------------------------------------------------|
 1268. |  69059445    102700402       1           1959       2010         56        50 |
 4466. | 137982891    144071602       2           1939       2010         74        70 |
 4570. | 138365047    144384402       1           1984       2010         34        25 |
 4767. | 138790047    145016802       1           1945       2010         74        64 |
 6371. | 204762971    208168402       2           1948       2010         65        61 |
        |---------------------------------------------------------------------------|
 7178. | 205810851    211650002       2           1989       2010         27        20 |
 9157. | 272634447    275644802       1     -2. refusal       2010         88        77 |
12307. | 340924815    344991202       3           1969       2010         43        40 |
14356. | 408404611    410318802       2           1956       2010         60        54 |
15781. | 410482687    416336802       1           1934       2010         85        75 |
        |---------------------------------------------------------------------------|
16061. | 411558445    444407202       1           1942       2010         72        67 |
16932. | 476178851    476992802       2           1945       2010         67        64 |
16989. | 476226451    477285202       2           1975       2010         47        34 |
20086. | 544544007    547155202       1           1928       2010         85        82 |
21145. | 545714291    551520802       2           1954       2010         79        55 |
```

```
          |-----------------------------------------------------------------------|
26098. |   680796967    684324802        1          1962       2010       58       47 |
26099. |   680796971    684324802        2          1966       2010       53       44 |
27439. |   693991005    716645202        1          1958       2011       57       52 |
29451. |   749471527    755235202        1          1959       2010       59       51 |
30726. |   816142131    816870402        2          1949       2010       64       60 |
          |-----------------------------------------------------------------------|
32420. |   817771411    823949202        2          1977       2010       37       33 |
34800. |   885269567    890466802        1          1987       2011       42       23 |
35063. |   886186887    891704402        1          1966       2011       58       44 |
35064. |   886186891    891704402        2          1968       2011       58       42 |
35066. |   886188251    891711202        1          1964       2011       50       47 |
          |-----------------------------------------------------------------------|
35221. |   952034011    952231202        2          1989       2011       27       21 |
36463. |   953187287    958031602        1          1935       2011       79       75 |
36645. |   953424611    958949602        2          1956       2011       58       55 |
36798. |   953932567    959561602        1          1976       2011       37       34 |
37929. |  1020824171   1024256802        2          1975       2011       40       36 |
          |-----------------------------------------------------------------------|
38904. |  1088140087   1088795602        1   -1. don't know    2011       58       50 |
38905. |  1088140091   1088795602        2      -2. refusal    2011       62       50 |
39088. |  1088285607   1089625202        1          1966       2011       50       44 |
39217. |  1088416167   1090264402        1   -1. don't know    2011       34       31 |
39699. |  1088828927   1092413202        1          1969       2011       52       41 |
          |-----------------------------------------------------------------------|
43696. |  1225466095   1230983602        3          1939       2011       75       72 |
43745. |  1225717703   1231146802        2          1978       2011       35       32 |
44506. |  1292468527   1294298402        1          1981       2011       34       30 |
47237. |  1361895847   1366936002        1          1949       2011       72       62 |
47298. |  1362117531   1367187602        2          1959       2011       55       52 |
          |-----------------------------------------------------------------------|
47916. |  1428410047   1430169202        1          1939       2011       75       72 |
48970. |  1429372247   1434949602        1   -1. don't know    2011       50       36 |
52673. |  1565851647   1571214802        1          1968       2011       46       43 |
52674. |  1565851651   1571214802        2          1962       2011       54       49 |
52677. |  1565852331   1571221602        2          1965       2011       49       46 |
          |-----------------------------------------------------------------------|
54418. |  1633766655   1638786402        3          1966       2012       49       45 |
          +-----------------------------------------------------------------------+
```

**Discrepancies**

1. In b_indresp.dta 470 where b_age_dv is not equal to b_dvage.

   For example

   pidp 69059445
   b_hidp 102700402
   b_pno 1

   b_birthy 1959
   b_intdaty_dv 2010
   b_age_dv 56
   b_dvage 50

**End of Notebook**