

```
-----
name: <unnamed>
log: D:\Jason\workshop\Stata workshop\data management_stata editor.log
log type: text
opened on: 22 May 2023, 11:37:10
```

```
.
.
. *****
. * Read in Wave 3 data
. * The codebook showed the number of observation is 4,882
. * The name of ID variable: aid
. *****
.
. *****
. * Check the accuracy of w3 data
. * N = 4,882
. * Each value of the ID variable is associated with one record, meaning the data is in wide
format
.
. *****
. use "D:\jason\workshop\Stata workshop\ICPSR_21600\DS0008\21600-0008-Data.dta", clear
(National Longitudinal Study of Adolescent to Adult Health (Add Health), 1994-200)
.
. *****
. * change the name of variable from uppercase to lowercase
. *****
. rename *, lower
.
. *****
. * Check if the number of observation is corrected
. *****
. count
. 4,882
.
. *****
. * check if each value of the ID variable is associated with just one record
. *****
. duplicates report aid
```

Duplicates in terms of aid

copies	observations	surplus
1	4882	0

```
.
. sort aid
. bysort aid: gen n = _n
. bysort aid: gen N = _N
. tab1 n N, mis
```

-> tabulation of n

n	Freq.	Percent	Cum.
---	-------	---------	------

1	4,882	100.00	100.00
Total	4,882	100.00	

-> tabulation of N

N	Freq.	Percent	Cum.
1	4,882	100.00	100.00
Total	4,882	100.00	

. drop n N

```
.
. *****
. * select variables
. *****
.
. keep aid iyear3 imonth3 h3odly h3od1m bio_sex3 h3od4a h3od4b h3od4c h3od4d h3od6 h3od2 h3sp9
h3sp12 h3sp6
```

```
.
. *****
. * Create a temporary data file to avoid accidentally overwriting the original data file
. *****
.
. save "D:\jason\workshop\Stata workshop\w3_temp.dta", replace
file D:\jason\workshop\Stata workshop\w3_temp.dta saved
```

```
.
. *****
. * read in the temporary data file
. *****
.
. use "D:\jason\workshop\Stata workshop\w3_temp.dta", clear
(National Longitudinal Study of Adolescent to Adult Health (Add Health), 1994-200)
```

```
.
. *****
. * check the attributes of the variables
. *****
.
. des aid iyear3 imonth3 h3odly h3od1m bio_sex3 h3od4a h3od4b h3od4c h3od4d h3od6 h3od2 h3sp9
h3sp12 h3sp6
```

variable name	storage type	display format	value label	variable label
aid	str8	%9s		RESPONDENT IDENTIFIER
iyear3	int	%4.0f		YEAR OF INTERVIEW-W3
imonth3	int	%13.0f	IMONTH3	MONTH OF INTERVIEW-W3
h3odly	int	%4.0f		S1Q1 BIRTH YEAR-W3
h3od1m	int	%13.0f	H3OD1M	S1Q1 BIRTH MONTH-W3
bio_sex3	int	%10.0f	BIO_SEX3	BIOLOGICAL SEX-W3
h3od4a	int	%18.0f	H3OD4A	S1Q4A RACE-WHITE-W3
h3od4b	int	%18.0f	H3OD4B	S1Q4B RACE-BLACK/AFRICAN AM-W3
h3od4c	int	%18.0f	H3OD4C	S1Q4C RACE-AMER INDIAN/NATIVE AM-W3
h3od4d	int	%18.0f	H3OD4D	S1Q4D RACE-ASIAN-W3
h3od6	int	%35.0f	H3OD6	S1Q6 RACE-SINGLE CATEGORY-W3
h3od2	int	%20.0f	H3OD2	S1Q2 ARE YOU OF HISPANIC ORIGIN-W3
h3sp9	int	%36.0f	H3SP9	S12Q9 PAST 7 DAYS WERE DEPRESSED-W3
h3sp12	int	%36.0f	H3SP12	S12Q12 PAST 7 DAYS WERE SAD-W3
h3sp6	int	%36.0f	H3SP6	S12Q1 PAST 7 DAYS SHAKE OFF BLUES-W3

```

.
. *****
. * Makde a copy of these variable
. *****
. clonevar      Interview_y3    = iyear3
.
. clonevar      Interview_m3    = imonth3
.
. clonevar      birth_y3       = h3odly
.
. clonevar      birth_m3       = h3odlm
.
. clonevar      female_w3      = bio_sex3
.
. clonevar      white_w3       = h3od4a
.
. clonevar      black_w3       = h3od4b
.
. clonevar      indian_w3      = h3od4c
.
. clonevar      asian_islander_w3 = h3od4d
.
. clonevar      best_category_w3 = h3od6
.
. clonevar      hispanic_w3    = h3od2
.
. clonevar      depressed_w3   = h3sp9
.
. clonevar      sad_w3         = h3sp12
.
. clonevar      blues_w3       = h3sp6
.
.
. *****
. * Create the Age variable
. *****
.
.
. tab1 Interview_y3 Interview_m3 birth_y3 birth_m3, mis

```

-> tabulation of Interview_y3

YEAR OF INTERVIEW-W 3	Freq.	Percent	Cum.
2001	3,533	72.37	72.37
2002	1,349	27.63	100.00
Total	4,882	100.00	

-> tabulation of Interview_m3

MONTH OF INTERVIEW-W3	Freq.	Percent	Cum.
(1) January	426	8.73	8.73
(2) February	264	5.41	14.13
(3) March	472	9.67	23.80
(4) April	253	5.18	28.98
(7) July	25	0.51	29.50
(8) August	726	14.87	44.37
(9) September	732	14.99	59.36
(10) October	773	15.83	75.19
(11) November	619	12.68	87.87
(12) December	592	12.13	100.00
Total	4,882	100.00	

-> tabulation of birth_y3

S1Q1 BIRTH | YEAR-W3 |	Freq.	Percent	Cum.
1974 |	13	0.27	0.27
1975 |	40	0.82	1.09
1976 |	274	5.61	6.70
1977 |	803	16.45	23.15
1978 |	853	17.47	40.62
1979 |	851	17.43	58.05
1980 |	850	17.41	75.46
1981 |	717	14.69	90.15
1982 |	476	9.75	99.90
1983 |	5	0.10	100.00
Total |	4,882	100.00	

-> tabulation of birth_m3

S1Q1 BIRTH | MONTH-W3 |	Freq.	Percent	Cum.
(1) January |	382	7.82	7.82
(2) February |	374	7.66	15.49
(3) March |	413	8.46	23.95
(4) April |	393	8.05	32.00
(5) May |	425	8.71	40.70
(6) June |	393	8.05	48.75
(7) July |	438	8.97	57.72
(8) August |	407	8.34	66.06
(9) September |	448	9.18	75.24
(10) October |	431	8.83	84.06
(11) November |	377	7.72	91.79
(12) December |	401	8.21	100.00
Total |	4,882	100.00	

. tab1 Interview_y3 Interview_m3 birth_y3 birth_m3, nol mis

-> tabulation of Interview_y3

YEAR OF | INTERVIEW-W | 3 |	Freq.	Percent	Cum.
2001 |	3,533	72.37	72.37
2002 |	1,349	27.63	100.00
Total |	4,882	100.00	

-> tabulation of Interview_m3

MONTH OF | INTERVIEW-W | 3 |	Freq.	Percent	Cum.
1 |	426	8.73	8.73
2 |	264	5.41	14.13
3 |	472	9.67	23.80
4 |	253	5.18	28.98
7 |	25	0.51	29.50
8 |	726	14.87	44.37
9 |	732	14.99	59.36
10 |	773	15.83	75.19
11	619	12.68	87.87
12	592	12.13	100.00
Total	4,882	100.00	

-> tabulation of birth_y3

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1977	803	16.45	23.15
1978	853	17.47	40.62
1979	851	17.43	58.05
1980	850	17.41	75.46
1981	717	14.69	90.15
1982	476	9.75	99.90
1983	5	0.10	100.00
Total	4,882	100.00	

-> tabulation of birth_m3

S1Q1 BIRTH MONTH-W3	Freq.	Percent	Cum.
1	382	7.82	7.82
2	374	7.66	15.49
3	413	8.46	23.95
4	393	8.05	32.00
5	425	8.71	40.70
6	393	8.05	48.75
7	438	8.97	57.72
8	407	8.34	66.06
9	448	9.18	75.24
10	431	8.83	84.06
11	377	7.72	91.79
12	401	8.21	100.00
Total	4,882	100.00	

```

.
.
. gen cm_interview_w3 = (Interview_y3-1900)*12+Interview_m3
. gen cm_birth_w3     = (birth_y3-1900)*12+birth_m3
.
.
. label variable cm_interview_w3 "interview date at W3, century month"
. label variable cm_birth_w3     "birth date from W3, century month"
.
.
. tab1 cm_interview_w3 cm_birth_w3, mis
-> tabulation of cm_interview_w3

```

interview date at W3, century month	Freq.	Percent	Cum.
1216	66	1.35	1.35
1219	25	0.51	1.86
1220	726	14.87	16.73
1221	732	14.99	31.73
1222	773	15.83	47.56
1223	619	12.68	60.24
1224	592	12.13	72.37
1225	426	8.73	81.09
1226	264	5.41	86.50
1227	472	9.67	96.17
1228	187	3.83	100.00

Total | 4,882 100.00

-> tabulation of cm_birth_w3

birth date | from W3, | century | month |	Freq.	Percent	Cum.
891 |	3	0.06	0.06
895 |	6	0.12	0.18
899 |	4	0.08	0.27
902 |	2	0.04	0.31
904 |	4	0.08	0.39
906 |	3	0.06	0.45
908 |	5	0.10	0.55
909 |	6	0.12	0.68
910 |	5	0.10	0.78
911 |	8	0.16	0.94
912 |	7	0.14	1.09
913 |	9	0.18	1.27
914 |	10	0.20	1.47
915 |	13	0.27	1.74
916 |	10	0.20	1.95
917 |	11	0.23	2.17
918 |	11	0.23	2.40
919 |	14	0.29	2.68
920 |	17	0.35	3.03
921 |	27	0.55	3.58
922 |	32	0.66	4.24
923 |	54	1.11	5.35
924 |	66	1.35	6.70
925 |	59	1.21	7.91
926 |	53	1.09	8.99
927 |	69	1.41	10.41
928 |	53	1.09	11.49
929 |	78	1.60	13.09
930 |	64	1.31	14.40
931 |	87	1.78	16.18
932 |	56	1.15	17.33
933 |	76	1.56	18.89
934 |	79	1.62	20.50
935 |	56	1.15	21.65
936 |	73	1.50	23.15
937 |	76	1.56	24.70
938 |	59	1.21	25.91
939 |	73	1.50	27.41
940 |	69	1.41	28.82
941 |	76	1.56	30.38
942 |	65	1.33	31.71
943 |	64	1.31	33.02
944 |	80	1.64	34.66
945 |	86	1.76	36.42
946 |	72	1.47	37.89
947 |	65	1.33	39.23
948 |	68	1.39	40.62
949 |	77	1.58	42.20
950 |	68	1.39	43.59
951 |	66	1.35	44.94
952 |	63	1.29	46.23
953 |	74	1.52	47.75
954 |	81	1.66	49.41
955 |	81	1.66	51.07
956 |	70	1.43	52.50
957 |	69	1.41	53.91
958 |	73	1.50	55.41
959 |	64	1.31	56.72
960 |	65	1.33	58.05
961 |	67	1.37	59.42
962 |	64	1.31	60.73
963 |	75	1.54	62.27

964	|	76	1.56	63.83
965	|	62	1.27	65.10
966	|	57	1.17	66.26
967	|	66	1.35	67.62
968	|	75	1.54	69.15
969	|	92	1.88	71.04
970	|	85	1.74	72.78
971	|	63	1.29	74.07
972	|	68	1.39	75.46
973	|	49	1.00	76.46
974	|	63	1.29	77.76
975	|	63	1.29	79.05
976	|	58	1.19	80.23
977	|	63	1.29	81.52
978	|	63	1.29	82.81
979	|	69	1.41	84.23
980	|	60	1.23	85.46
981	|	63	1.29	86.75
982	|	64	1.31	88.06
983	|	53	1.09	89.14
984	|	49	1.00	90.15
985	|	43	0.88	91.03
986	|	55	1.13	92.15
987	|	51	1.04	93.20
988	|	58	1.19	94.39
989	|	61	1.25	95.64
990	|	49	1.00	96.64
991	|	51	1.04	97.69
992	|	44	0.90	98.59
993	|	29	0.59	99.18
994	|	20	0.41	99.59
995	|	10	0.20	99.80
996	|	5	0.10	99.90
997	|	2	0.04	99.94
1000	|	2	0.04	99.98
1006	|	1	0.02	100.00

Total | 4,882 100.00

```
.
.
. gen age_w3_c = (cm_interview_w3-cm_birth_w3)/12
. gen age_w3_i = floor((cm_interview_w3-cm_birth_w3)/12)
.
.
. label variable age_w3_c "respondent's age at w3, continuous"
. label variable age_w3_i "respondent's age at w3, integer"
.
. list aid Interview_y3 Interview_m3 birth_y3 birth_m3 age_w3_c age_w3_i in 1/50, nol
```

	aid	Inter~y3	Inter~m3	birth_y3	birth_m3	age_w3_c	age_w3_i
1.	57100270	2001	12	1977	10	24.16667	24
2.	57101310	2001	11	1976	11	25	25
3.	57103869	2002	1	1976	1	26	26
4.	57104676	2002	3	1983	10	18.41667	18
5.	57109625	2002	2	1981	3	20.91667	20
6.	57111071	2001	11	1981	6	20.41667	20
7.	57111786	2001	9	1980	9	21	21
8.	57113943	2002	2	1979	1	23.08333	23
9.	57117542	2002	1	1979	9	22.33333	22
10.	57117997	2001	11	1982	10	19.08333	19
11.	57118381	2001	9	1982	9	19	19

12.	57118943	2001	8	1979	4	22.33333	22
13.	57120005	2002	3	1982	9	19.5	19
14.	57120046	2002	2	1976	10	25.33333	25
15.	57120371	2002	3	1976	8	25.58333	25

16.	57121404	2001	10	1979	7	22.25	22
17.	57121476	2001	9	1980	10	20.91667	20
18.	57123494	2001	10	1978	2	23.66667	23
19.	57127241	2001	8	1982	1	19.58333	19
20.	57129567	2002	4	1981	2	21.16667	21

21.	57131432	2002	2	1979	1	23.08333	23
22.	57131909	2001	9	1981	7	20.16667	20
23.	57133772	2001	9	1982	2	19.58333	19
24.	57134967	2002	4	1982	2	20.16667	20
25.	57134970	2001	11	1980	4	21.58333	21

26.	57135078	2001	10	1980	8	21.16667	21
27.	57136630	2001	11	1980	5	21.5	21
28.	57138056	2002	3	1981	10	20.41667	20
29.	57139880	2002	1	1981	10	20.25	20
30.	57141051	2001	9	1980	4	21.41667	21

31.	57141800	2002	1	1982	7	19.5	19
32.	57141919	2002	1	1982	8	19.41667	19
33.	57145151	2001	12	1980	8	21.33333	21
34.	57146734	2002	1	1982	7	19.5	19
35.	57153160	2001	11	1977	8	24.25	24

36.	57154247	2001	11	1978	4	23.58333	23
37.	57154249	2001	12	1976	11	25.08333	25
38.	57154779	2001	10	1981	11	19.91667	19
39.	57157723	2002	2	1980	11	21.25	21
40.	57159952	2001	11	1979	3	22.66667	22

41.	57160648	2001	8	1978	7	23.08333	23
42.	57164981	2002	2	1981	8	20.5	20
43.	57165081	2001	10	1979	11	21.91667	21
44.	57166450	2001	9	1980	5	21.33333	21
45.	57166463	2001	10	1982	10	19	19

46.	57167951	2002	1	1981	2	20.91667	20
47.	57177419	2002	4	1980	9	21.58333	21
48.	57177942	2001	10	1978	1	23.75	23
49.	57178110	2001	8	1981	8	20	20
50.	57178982	2001	11	1980	11	21	21

. sum age_w3_i age_w3_c

Variable	Obs	Mean	Std. Dev.	Min	Max
age_w3_i	4,882	21.86542	1.81418	18	28
age_w3_c	4,882	22.32475	1.794336	18.33333	28

.
 . *****
 . * Respondent's gender at W3
 . *****

. tabl female_w3, mis

-> tabulation of female_w3

BIOLOGICAL	SEX-W3	Freq.	Percent	Cum.
(1) Male		2,253	46.15	46.15
(2) Female		2,629	53.85	100.00

Total | 4,882 100.00

. tab1 female_w3, nol mis

-> tabulation of female_w3

BIOLOGICAL SEX-W3	Freq.	Percent	Cum.
1	2,253	46.15	46.15
2	2,629	53.85	100.00
Total	4,882	100.00	

. replace female_w3 = female_w3 -1
(4,882 real changes made)

. label define female_w3 1 "(1) female" 0 "(0) male"

. label value female_w3 female_w3

. label variable female_w3 "respondent's sex at W3"

. tab2 bio_sex3 female_w3, mis

-> tabulation of bio_sex3 by female_w3

BIOLOGICAL SEX-W3	respondent's sex at W3		Total
	(0) male	(1) femal	
(1) Male	2,253	0	2,253
(2) Female	0	2,629	2,629
Total	2,253	2,629	4,882

. *****
* Respondent's race at W3

. tab1 white_w3 black_w3 indian_w3 asian_islander_w3 hispanic_w3, mis

-> tabulation of white_w3

RACE-WHITE-W3	Freq.	Percent	Cum.
(0) Not marked	1,467	30.05	30.05
(1) Marked	3,376	69.15	99.20
(6) Refused	8	0.16	99.37
(8) Don't know	16	0.33	99.69
(9) Not applicable	15	0.31	100.00
Total	4,882	100.00	

-> tabulation of black_w3

RACE-BLACK/AFRICAN AM-W3	Freq.	Percent	Cum.
(0) Not marked	3,664	75.05	75.05
(1) Marked	1,213	24.85	99.90
(8) Don't know	3	0.06	99.96
(9) Not applicable	2	0.04	100.00

Total | 4,882 100.00

-> tabulation of indian_w3

S1Q4C RACE-AMER | INDIAN/NATIVE | AM-W3 |	Freq.	Percent	Cum.
(0) Not marked |	4,650	95.25	95.25
(1) Marked |	226	4.63	99.88
(8) Don't know |	3	0.06	99.94
(9) Not applicable |	3	0.06	100.00
Total |	4,882	100.00	

-> tabulation of asian_islander_w3

S1Q4D | RACE-ASIAN-W3 |	Freq.	Percent	Cum.
(0) Not marked |	4,650	95.25	95.25
(1) Marked |	227	4.65	99.90
(8) Don't know |	2	0.04	99.94
(9) Not applicable |	3	0.06	100.00
Total |	4,882	100.00	

-> tabulation of hispanic_w3

S1Q2 ARE YOU OF | HISPANIC ORIGIN-W3 |	Freq.	Percent	Cum.
(0) No (skip to Q.4) |	4,353	89.16	89.16
(1) Yes |	522	10.69	99.86
(8) Don't know |	7	0.14	100.00
Total |	4,882	100.00	

```
.
. gen str1 s_white_w3 = "."
. gen str1 s_black_w3 = "."
. gen str1 s_indian_w3 = "."
. gen str2 s_asian_islander_w3 = ".."
. gen str1 s_hispanic_w3 = "."
.
.
. replace s_white_w3 = "W"          if white_w3 ==1
(3,376 real changes made)
. replace s_black_w3 = "B"          if black_w3 ==1
(1,213 real changes made)
. replace s_indian_w3 = "I"          if indian_w3 ==1
(226 real changes made)
. replace s_asian_islander_w3 = "AI"  if asian_islander_w3 ==1
(227 real changes made)
. replace s_hispanic_w3 = "H"        if hispanic_w3 ==1
(522 real changes made)
.
. label variable s_white_w3          "RACE-WHITE-W3, string"
. label variable s_black_w3          "RACE-BLACK/AFRICAN AM-W3, string"
```

```

. label variable s_indian_w3 "RACE-AMER INDIAN/NATIVE Amerian-W3, string"
. label variable s_asian_islander_w3 "RACE-ASIAN-ISlander-W3, string"
. label variable s_hispanic_w3 "ARE YOU OF HISPANIC ORIGIN-W3, string"
.
.
.
. gen race_pattern_w3 = s_white_w3 + "_" + s_black_w3 + "_" + s_indian_w3 + "_" +
s_asian_islander_w3 + "_" + s_hispanic_w3
. label variable race_pattern_w3 "racial backgrounds at W3"
.
. des race_pattern_w3

```

variable name	storage type	display format	value label	variable label
race_pattern_w3	str10	%10s		racial backgrounds at W3

```

. tab1 race_pattern_w3, mis
-> tabulation of race_pattern_w3

```

racial backgrounds at W3	Freq.	Percent	Cum.
.._.._.._.	6	0.12	0.12
.._.._.._H	37	0.76	0.88
.._.._AI_.	169	3.46	4.34
.._.._AI_H	16	0.33	4.67
.._I_.._.	40	0.82	5.49
.._I_.._H	74	1.52	7.01
..B_.._.._.	1,105	22.63	29.64
..B_.._.._H	33	0.68	30.32
..B_.._AI_.	5	0.10	30.42
..B_I_.._.	19	0.39	30.81
..B_I_.._H	2	0.04	30.85
W_.._.._.._.	2,874	58.87	89.72
W_.._.._.._H	344	7.05	96.76
W_.._.._AI_.	28	0.57	97.34
W_.._.._AI_H	2	0.04	97.38
W_.._I_.._.._.	68	1.39	98.77
W_.._I_.._.._H	8	0.16	98.93
W_.._I_.._AI_.	2	0.04	98.98
W_.._I_.._AI_H	1	0.02	99.00
W_B_.._.._.._.	32	0.66	99.65
W_B_.._.._.._H	3	0.06	99.71
W_B_.._.._AI_.	1	0.02	99.73
W_B_.._.._AI_H	1	0.02	99.75
W_B_I_.._.._.._.	9	0.18	99.94
W_B_I_.._.._.._H	1	0.02	99.96
W_B_I_.._.._AI_.	2	0.04	100.00
Total	4,882	100.00	

```

.
.
.
. *****
. * Incorporate the information from the best race category variable
. *****
.
. tab2 race_pattern_w3 best_category_w3, mis
-> tabulation of race_pattern_w3 by best_category_w3

```

racial | background |	S1Q6 RACE-SINGLE CATEGORY-W3								Total
s at W3 |	(1) White	(2) Black	(3) Ameri	(4) Asian	(6) Refus	(7) Legit	(8) Don't	(9) Not a	
.....	0	0	0	0	0	6	0	0	6
.....H	0	0	0	0	0	37	0	0	37
...AI..	0	0	0	0	0	169	0	0	169
...AI_H	0	0	0	0	0	16	0	0	16
..I....	0	0	0	0	0	40	0	0	40
..I....H	0	0	0	0	0	74	0	0	74
.B.....	0	0	0	0	0	1,105	0	0	1,105
.B.....H	0	0	0	0	0	33	0	0	33
.B..AI..	0	5	0	0	0	0	0	0	5
.B_I....	0	17	1	0	0	0	1	0	19
.B_I....H	0	1	1	0	0	0	0	0	2
W.....	0	0	0	0	0	2,874	0	0	2,874
W.....H	0	0	0	0	0	344	0	0	344
W...AI..	16	0	0	11	0	0	0	1	28
W...AI_H	0	0	0	2	0	0	0	0	2
W..I....	61	0	7	0	0	0	0	0	68
W..I....H	5	0	2	0	0	0	1	0	8
W..I_AI..	1	0	0	1	0	0	0	0	2
W..I_AI_H	1	0	0	0	0	0	0	0	1
WB.....	6	23	0	0	2	0	0	1	32
WB.....H	1	1	0	0	0	0	1	0	3
WB..AI..	0	1	0	0	0	0	0	0	1
WB..AI_H	1	0	0	0	0	0	0	0	1
WB_I....	1	7	1	0	0	0	0	0	9
WB_I....H	0	1	0	0	0	0	0	0	1
WB_I_AI..	0	1	0	0	1	0	0	0	2
Total |	93	57	12	14	3	4,698	3	2	4,882

```

.
. gen race_w3 = .
(4,882 missing values generated)

. label variable race_w3 "race at w3"

. label define race_w3 1 "(1) white" 2 "(2) black" 3 "(3) indians" 4 "(4) asian/islanders" 5
"(5) hispanic"

. label value race_w3 race_w3

.
.
. *code respondents with only one racial backgrounds
.
. replace race_w3 = 1 if race_pattern_w3 == "W....."
(2,874 real changes made)

. replace race_w3 = 2 if race_pattern_w3 == ".B....."
(1,105 real changes made)

. replace race_w3 = 3 if race_pattern_w3 == "..I...."
(40 real changes made)

. replace race_w3 = 4 if race_pattern_w3 == "...AI.."
(169 real changes made)

. replace race_w3 = 5 if race_pattern_w3 == ".....H"
(37 real changes made)

.
. * code respondents with some hispanic backgrounds
. replace race_w3 = 5 if inlist(race_pattern_w3, "...AI_H", "..I...H", ".B...H",
".B_I..H")
(125 real changes made)

. replace race_w3 = 5 if inlist(race_pattern_w3, "W.....H", "W...AI_H", "W..I...H",
"W..I_AI_H")
(355 real changes made)

. replace race_w3 = 5 if inlist(race_pattern_w3, "WB...H", "WB..AI_H", "WB_I...H")
(5 real changes made)

.

```

```

. replace race_w3 = 1 if best_category_w3 ==1 & inlist(race_pattern_w3,"W_._.AI_",
"W_._I_._.", "W_._I_AI_", "W_B_._._.", "W_B_I_._.")
(85 real changes made)

.
. replace race_w3 = 2 if best_category_w3 ==2 & inlist(race_pattern_w3,"W_B_._._.",
"W_B_I_._._.", "._B_.AI_", "._B_I_._._.", "W_B_.AI_", "W_B_I_AI_")
> ")
(54 real changes made)

. replace race_w3 = 3 if best_category_w3 ==3 & inlist(race_pattern_w3,"W_._I_._.",
"W_B_I_._._.", "._B_I_._._.")
(9 real changes made)

. replace race_w3 = 4 if best_category_w3 ==4 & inlist(race_pattern_w3,"W_._.AI_",
"W_._I_AI_")
(12 real changes made)

. *replace race_w3 = 5 if best_category_w3 ==5 & inlist(race_pattern_w3,"W_B_._._.",
"W_B_I_AI_")
.
. tab1 race_w3, mis

```

-> tabulation of race_w3

race at w3 |	Freq.	Percent	Cum.
(1) white |	2,959	60.61	60.61
(2) black |	1,159	23.74	84.35
(3) indians |	49	1.00	85.35
(4) asian/islanders |	181	3.71	89.06
(5) hispanic |	522	10.69	99.75
. |	12	0.25	100.00

Total |	4,882	100.00	

```

.
.
.
.
. *****
. * Depressed mood
. *****
.
. * check out the scale items
.
. tab1 depressed_w3 sad_w3 blues_w3, mis

```

-> tabulation of depressed_w3

S12Q9 PAST 7 DAYS WERE DEPRESSED-W3 |	Freq.	Percent	Cum.
(0) Never/rarely |	3,623	74.21	74.21
(1) Sometimes |	960	19.66	93.88
(2) A lot of the time |	202	4.14	98.01
(3) Most of the time/all of the time |	89	1.82	99.84
(6) Refused |	1	0.02	99.86
(8) Don't know |	6	0.12	99.98
(9) Not applicable |	1	0.02	100.00

Total |	4,882	100.00	

-> tabulation of sad_w3

S12Q12 PAST 7 DAYS WERE SAD-W3 |	Freq.	Percent	Cum.
(0) Never/rarely |	2,885	59.09	59.09
(1) Sometimes |	1,671	34.23	93.32
(2) A lot of the time |	243	4.98	98.30
(3) Most of the time/all of the time |	77	1.58	99.88
(6) Refused |	1	0.02	99.90

(8) Don't know |	4	0.08	99.98
(9) Not applicable |	1	0.02	100.00

Total |	4,882	100.00	

-> tabulation of blues_w3

S12Q1 PAST 7 DAYS SHAKE OFF BLUES-W3 |	Freq.	Percent	Cum.

(0) Never/rarely |	3,695	75.69	75.69
(1) Sometimes |	894	18.31	94.00
(2) A lot of the time |	185	3.79	97.79
(3) Most of the time/all of the time |	99	2.03	99.82
(6) Refused |	1	0.02	99.84
(8) Don't know |	7	0.14	99.98
(9) Not applicable |	1	0.02	100.00

Total |	4,882	100.00	

. tab1 depressed_w3 sad_w3 blues_w3, mis nol

-> tabulation of depressed_w3

S12Q9 PAST 7 DAYS WERE DEPRESSED-W3 |	Freq.	Percent	Cum.

0 |	3,623	74.21	74.21
1 |	960	19.66	93.88
2 |	202	4.14	98.01
3 |	89	1.82	99.84
6 |	1	0.02	99.86
8 |	6	0.12	99.98
9 |	1	0.02	100.00

Total |	4,882	100.00	

-> tabulation of sad_w3

S12Q12 PAST 7 DAYS WERE SAD-W3 |	Freq.	Percent	Cum.

0 |	2,885	59.09	59.09
1 |	1,671	34.23	93.32
2 |	243	4.98	98.30
3 |	77	1.58	99.88
6 |	1	0.02	99.90
8 |	4	0.08	99.98
9 |	1	0.02	100.00

Total |	4,882	100.00	

-> tabulation of blues_w3

S12Q1 PAST 7 DAYS SHAKE OFF BLUES-W3 |	Freq.	Percent	Cum.

0 |	3,695	75.69	75.69
1 |	894	18.31	94.00
2 |	185	3.79	97.79
3 |	99	2.03	99.82
6 |	1	0.02	99.84
8 |	7	0.14	99.98
9 |	1	0.02	100.00

Total |	4,882	100.00	

```

.
. * recode the values of 6 through 9 to missing for these variables
. recode depressed_w3 sad_w3 blues_w3 (6/9 =.)
(depressed_w3: 8 changes made)
(sad_w3: 6 changes made)
(blues_w3: 9 changes made)

```

```

.
. * check the accuracy of variables
. tab2 h3sp9      depressed_w3, mis

```

-> tabulation of h3sp9 by depressed_w3

S12Q9 PAST 7 DAYS |	S12Q9 PAST 7 DAYS WERE DEPRESSED-W3				.	Total
WERE DEPRESSED-W3 |	(0) Never	(1) Somet	(2) A lot	(3) Most		
(0) Never/rarely |	3,623	0	0	0	0 |	3,623
(1) Sometimes |	0	960	0	0	0 |	960
(2) A lot of the time |	0	0	202	0	0 |	202
(3) Most of the time/ |	0	0	0	89	0 |	89
(6) Refused |	0	0	0	0	1 |	1
(8) Don't know |	0	0	0	0	6 |	6
(9) Not applicable |	0	0	0	0	1 |	1
Total |	3,623	960	202	89	8 |	4,882

```

. tab2 h3sp12     sad_w3, mis

```

-> tabulation of h3sp12 by sad_w3

S12Q12 PAST 7 DAYS |	S12Q12 PAST 7 DAYS WERE SAD-W3				.	Total
WERE SAD-W3 |	(0) Never	(1) Somet	(2) A lot	(3) Most		
(0) Never/rarely |	2,885	0	0	0	0 |	2,885
(1) Sometimes |	0	1,671	0	0	0 |	1,671
(2) A lot of the time |	0	0	243	0	0 |	243
(3) Most of the time/ |	0	0	0	77	0 |	77
(6) Refused |	0	0	0	0	1 |	1
(8) Don't know |	0	0	0	0	4 |	4
(9) Not applicable |	0	0	0	0	1 |	1
Total |	2,885	1,671	243	77	6 |	4,882

```

. tab2 h3sp6      blues_w3, mis

```

-> tabulation of h3sp6 by blues_w3

S12Q1 PAST 7 DAYS |	S12Q1 PAST 7 DAYS SHAKE OFF BLUES-W3				.	Total
SHAKE OFF BLUES-W3 |	(0) Never	(1) Somet	(2) A lot	(3) Most		
(0) Never/rarely |	3,695	0	0	0	0 |	3,695
(1) Sometimes |	0	894	0	0	0 |	894
(2) A lot of the time |	0	0	185	0	0 |	185
(3) Most of the time/ |	0	0	0	99	0 |	99
(6) Refused |	0	0	0	0	1 |	1
(8) Don't know |	0	0	0	0	7 |	7
(9) Not applicable |	0	0	0	0	1 |	1
Total |	3,695	894	185	99	9 |	4,882

```

.
.
. * check the inter-item associations of the depression mood items
.

```

```

. factor depressed_w3 sad_w3 blues_w3
(obs=4,867)

```

```

Factor analysis/correlation          Number of obs =      4,867
Method: principal factors            Retained factors =      1
Rotation: (unrotated)               Number of params =      3

```


Variable	Factor1
depressed_w3	0.44573
sad_w3	0.31728
blues_w3	0.24759

```
. label variable d_score_w3_sum "depression score at W3, sum score"
. label variable d_score_w3_egen "depression score at W3, egen function"
. label variable d_score_w3_fs "depression score at W3, factor score"
```

```
.
.
. sum d_score_w3_sum d_score_w3_egen d_score_w3_fs
```

Variable	Obs	Mean	Std. Dev.	Min	Max
d_score_w3~m	4,867	1.144442	1.675324	0	9
d_score_w3~n	4,882	1.142974	1.67414	0	9
d_score_w3~s	4,867	5.50e-09	.8765814	-.5879983	4.0698

```
. list aid depressed_w3 sad_w3 blues_w3 d_score_w3_sum d_score_w3_egen d_score_w3_fs if
d_score_w3_sum ==., sepby(aid) nol
```

	aid	depres~3	sad_w3	blues_w3	d_scor~m	d_scor~n	d_scor~s
98.	57253279	.	3	.	.	3	.
913.	91579964	0	0	.	.	0	.
1025.	91716096	0	0	.	.	0	.
1479.	92716333	0	.	3	.	3	.
1614.	93571475	.	.	0	.	0	.
3337.	96676757	.	1	1	.	2	.
3723.	97577053	0	.	0	.	0	.
4083.	98574636	.	.	.	.	0	.
4213.	98579952	.	0	0	.	0	.
4214.	98579953	.	.	0	.	0	.
4227.	98606929	0	0	.	.	0	.
4321.	98717960	.	2	.	.	2	.
4447.	99571273	0	0	.	.	0	.
4707.	99579952	.	.	.	.	0	.
4797.	99713501	0	0	.	.	0	.

```
.
.
. *****
. * generate the indicator variable
. *****
.
```

```

. gen in_w3 =1
. label variable in_w3 "respondents of W3"
. label define in_w3 0 " (0) not in W3" 1 "(1) in W3"
. label value in_w3 in_w3
. tab1 in_w3, mis
-> tabulation of in_w3

```

respondents of W3	Freq.	Percent	Cum.
(1) in W3	4,882	100.00	100.00
Total	4,882	100.00	

```

.
.
. *****
. * Save the data
. *****
. sort aid

. save "D:\jason\workshop\Stata workshop\w3.dta", replace
file D:\jason\workshop\Stata workshop\w3.dta saved

.
.
.
.
. *****
. * Read in Wave 4 data
. * The codebook showed the number of observation is 4,882
. * The name of ID variable: aid
. *****
.
.
. *****
. * Check the accuracy of w3 data
. * N = 5,114
. * Each value of the ID variable is associated with one record, meaning the data is in wide
format
.
. *****
. use "D:\jason\workshop\Stata workshop\ICPSR_21600\DS0022\21600-0022-Data.dta" , clear
(National Longitudinal Study of Adolescent to Adult Health (Add Health), 1994-200)

.
.
. *****
. * change the name of variable from uppercase to lowercase
. *****
. rename *, lower

.
. *****
. * Check if the number of observation is correct
. *****
. count
5,114

.
.
. *****

```

```
. * check if each value of the ID variable is associated with just one record
. *****
.
. duplicates report aid
```

Duplicates in terms of aid

copies	observations	surplus
1	5114	0

```
.
. sort aid
. bysort aid: gen n = _n
. bysort aid: gen N = _N
. tab1 n N, mis
```

-> tabulation of n

n	Freq.	Percent	Cum.
1	5,114	100.00	100.00
Total	5,114	100.00	

-> tabulation of N

N	Freq.	Percent	Cum.
1	5,114	100.00	100.00
Total	5,114	100.00	

```
. drop n N
```

```
.
.
.
. *****
. * select variables
. *****
```

```
. keep aid iyear4 imonth4 h4odly h4odlm bio_sex4 h4mh22 h4mh26 h4mh19
```

```
.
.
. *****
. * Create a temporary data file to avoid accidentally overwriting the original data file
. *****
```

```
. save "D:\jason\workshop\Stata workshop\w4_temp.dta", replace
file D:\jason\workshop\Stata workshop\w4_temp.dta saved
```

```
.
.
. *****
. * read in the temporary data file
. *****
```

```
. use "D:\jason\workshop\Stata workshop\w4_temp.dta", clear
(National Longitudinal Study of Adolescent to Adult Health (Add Health), 1994-200)
```

```
. *****
```

```

. * check the attributes of the variables
. *****
.
. des aid iyear4 imonth4 h4odly h4od1m bio_sex4 h4mh22 h4mh26 h4mh19

```

variable name	storage type	display format	value label	variable label
aid	str8	%9s		RESPONDENT IDENTIFIER
iyear4	int	%4.0f		YEAR OF INTERVIEW-W4
imonth4	int	%13.0f	IMONTH4	MONTH OF INTERVIEW-W4
h4odly	int	%4.0f		S1Q1 BIRTH YEAR-W4
h4od1m	int	%13.0f	H4OD1M	S1Q1 BIRTH MONTH-W4
bio_sex4	int	%10.0f	BIO_SEX4	BIOLOGICAL SEX-W4
h4mh22	int	%39.0f	H4MH22	S14Q22 PAST 7 DAYS FELT DEPRESSED-W4
h4mh26	int	%39.0f	H4MH26	S14Q26 PAST 7 DAYS FELT SAD-W4
h4mh19	int	%39.0f	H4MH19	S14Q19 PAST 7 DAYS SHAKE OFF BLUES-W4

```

.
.
. *****
. * Makde a copy of these variables
. *****
. clonevar Interview_y4 = iyear4
. clonevar Interview_m4 = imonth4
. clonevar birth_y4 = h4odly
. clonevar birth_m4 = h4od1m
. clonevar female_w4 = bio_sex4
. clonevar depressed_w4 = h4mh22
. clonevar sad_w4 = h4mh26
. clonevar blues_w4 = h4mh19
.
.
. *****
. * Create the Age variable
. *****
.
.
. tab1 Interview_y4 Interview_m4 birth_y4 birth_m4, mis

```

-> tabulation of Interview_y4

YEAR OF INTERVIEW-W4	Freq.	Percent	Cum.
2007	46	0.90	0.90
2008	5,021	98.18	99.08
2009	47	0.92	100.00
Total	5,114	100.00	

-> tabulation of Interview_m4

MONTH OF INTERVIEW-W4	Freq.	Percent	Cum.
(1) January	191	3.73	3.73
(2) February	644	12.59	16.33
(3) March	784	15.33	31.66
(4) April	796	15.57	47.22
(5) May	705	13.79	61.01

(6) June	|	509	9.95	70.96
(7) July	|	391	7.65	78.61
(8) August	|	342	6.69	85.30
(9) September	|	272	5.32	90.61
(10) October	|	209	4.09	94.70
(11) November	|	151	2.95	97.65
(12) December	|	120	2.35	100.00

Total	|	5,114	100.00	

-> tabulation of birth_y4

S1Q1 BIRTH	|			
YEAR-W4	|	Freq.	Percent	Cum.

1974	|	7	0.14	0.14
1975	|	45	0.88	1.02
1976	|	307	6.00	7.02
1977	|	875	17.11	24.13
1978	|	887	17.34	41.47
1979	|	914	17.87	59.35
1980	|	884	17.29	76.63
1981	|	724	14.16	90.79
1982	|	464	9.07	99.86
1983	|	7	0.14	100.00

Total	|	5,114	100.00	

-> tabulation of birth_m4

S1Q1 BIRTH	|			
MONTH-W4	|	Freq.	Percent	Cum.

(1) January	|	400	7.82	7.82
(2) February	|	386	7.55	15.37
(3) March	|	428	8.37	23.74
(4) April	|	418	8.17	31.91
(5) May	|	422	8.25	40.16
(6) June	|	402	7.86	48.03
(7) July	|	463	9.05	57.08
(8) August	|	442	8.64	65.72
(9) September	|	461	9.01	74.74
(10) October	|	446	8.72	83.46
(11) November	|	425	8.31	91.77
(12) December	|	421	8.23	100.00

Total	|	5,114	100.00	

. tab1 Interview_y4 Interview_m4 birth_y4 birth_m4, nol mis

-> tabulation of Interview_y4

YEAR OF	|			
INTERVIEW-W	|	Freq.	Percent	Cum.
4	|			

2007	|	46	0.90	0.90
2008	|	5,021	98.18	99.08
2009	|	47	0.92	100.00

Total	|	5,114	100.00	

-> tabulation of Interview_m4

MONTH OF	|			
INTERVIEW-W	|	Freq.	Percent	Cum.
4	|			

1	|	191	3.73	3.73
2	|	644	12.59	16.33
3	|	784	15.33	31.66

4	796	15.57	47.22
5	705	13.79	61.01
6	509	9.95	70.96
7	391	7.65	78.61
8	342	6.69	85.30
9	272	5.32	90.61
10	209	4.09	94.70
11	151	2.95	97.65
12	120	2.35	100.00

Total	5,114	100.00	

-> tabulation of birth_y4

S1Q1 BIRTH YEAR-W4	Freq.	Percent	Cum.
1974	7	0.14	0.14
1975	45	0.88	1.02
1976	307	6.00	7.02
1977	875	17.11	24.13
1978	887	17.34	41.47
1979	914	17.87	59.35
1980	884	17.29	76.63
1981	724	14.16	90.79
1982	464	9.07	99.86
1983	7	0.14	100.00

Total	5,114	100.00	

-> tabulation of birth_m4

S1Q1 BIRTH MONTH-W4	Freq.	Percent	Cum.
1	400	7.82	7.82
2	386	7.55	15.37
3	428	8.37	23.74
4	418	8.17	31.91
5	422	8.25	40.16
6	402	7.86	48.03
7	463	9.05	57.08
8	442	8.64	65.72
9	461	9.01	74.74
10	446	8.72	83.46
11	425	8.31	91.77
12	421	8.23	100.00

Total	5,114	100.00	

```

.
.
. gen cm_interview_w4 = (Interview_y4-1900)*12+Interview_m4
. gen cm_birth_w4     = (birth_y4-1900)*12+birth_m4
.
.
. label variable cm_interview_w4 "interview date at W4, century month"
. label variable cm_birth_w4     "birth date from W4, century month"
.
.
. tab1 cm_interview_w4 cm_birth_w4, mis

```

-> tabulation of cm_interview_w4

interview	|
date at W4,	|
century	|

month	Freq.	Percent	Cum.
1288	27	0.53	0.53
1289	16	0.31	0.84
1290	3	0.06	0.90
1297	144	2.82	3.72
1298	644	12.59	16.31
1299	784	15.33	31.64
1300	769	15.04	46.68
1301	689	13.47	60.15
1302	506	9.89	70.04
1303	391	7.65	77.69
1304	342	6.69	84.38
1305	272	5.32	89.69
1306	209	4.09	93.78
1307	151	2.95	96.73
1308	120	2.35	99.08
1309	47	0.92	100.00
Total	5,114	100.00	

-> tabulation of cm_birth_w4

birth date from W4, century month	Freq.	Percent	Cum.
891	1	0.02	0.02
895	2	0.04	0.06
899	4	0.08	0.14
902	2	0.04	0.18
904	3	0.06	0.23
906	2	0.04	0.27
907	1	0.02	0.29
908	7	0.14	0.43
909	6	0.12	0.55
910	4	0.08	0.63
911	9	0.18	0.80
912	11	0.22	1.02
913	11	0.22	1.23
914	11	0.22	1.45
915	12	0.23	1.68
916	14	0.27	1.96
917	10	0.20	2.15
918	11	0.22	2.37
919	18	0.35	2.72
920	23	0.45	3.17
921	31	0.61	3.77
922	35	0.68	4.46
923	61	1.19	5.65
924	70	1.37	7.02
925	58	1.13	8.15
926	63	1.23	9.39
927	71	1.39	10.77
928	63	1.23	12.01
929	81	1.58	13.59
930	66	1.29	14.88
931	94	1.84	16.72
932	69	1.35	18.07
933	81	1.58	19.65
934	78	1.53	21.18
935	74	1.45	22.62
936	77	1.51	24.13
937	77	1.51	25.64
938	61	1.19	26.83
939	75	1.47	28.29
940	73	1.43	29.72
941	70	1.37	31.09
942	60	1.17	32.26
943	63	1.23	33.50

944	|	86	1.68	35.18
945	|	87	1.70	36.88
946	|	82	1.60	38.48
947	|	79	1.54	40.03
948	|	74	1.45	41.47
949	|	83	1.62	43.10
950	|	67	1.31	44.41
951	|	79	1.54	45.95
952	|	61	1.19	47.15
953	|	76	1.49	48.63
954	|	84	1.64	50.27
955	|	89	1.74	52.01
956	|	84	1.64	53.66
957	|	77	1.51	55.16
958	|	80	1.56	56.73
959	|	65	1.27	58.00
960	|	69	1.35	59.35
961	|	73	1.43	60.77
962	|	67	1.31	62.08
963	|	75	1.47	63.55
964	|	84	1.64	65.19
965	|	65	1.27	66.46
966	|	64	1.25	67.72
967	|	68	1.33	69.05
968	|	75	1.47	70.51
969	|	90	1.76	72.27
970	|	82	1.60	73.88
971	|	71	1.39	75.26
972	|	70	1.37	76.63
973	|	51	1.00	77.63
974	|	63	1.23	78.86
975	|	61	1.19	80.05
976	|	63	1.23	81.29
977	|	59	1.15	82.44
978	|	66	1.29	83.73
979	|	79	1.54	85.28
980	|	55	1.08	86.35
981	|	62	1.21	87.56
982	|	63	1.23	88.80
983	|	55	1.08	89.87
984	|	47	0.92	90.79
985	|	44	0.86	91.65
986	|	52	1.02	92.67
987	|	54	1.06	93.72
988	|	55	1.08	94.80
989	|	61	1.19	95.99
990	|	48	0.94	96.93
991	|	49	0.96	97.89
992	|	43	0.84	98.73
993	|	27	0.53	99.26
994	|	21	0.41	99.67
995	|	7	0.14	99.80
996	|	3	0.06	99.86
997	|	3	0.06	99.92
1000	|	2	0.04	99.96
1002	|	1	0.02	99.98
1006	|	1	0.02	100.00

Total | 5,114 100.00

```

.
.
. gen age_w4_c = (cm_interview_w4-cm_birth_w4)/12
. gen age_w4_i = floor((cm_interview_w4-cm_birth_w4)/12)
.
.
. label variable age_w4_c "respondent's age at w4, continuous"

```



```
. label variable age_w4_i "respondent's age at w4, integer"
```

```
. list aid Interview_y4 Interview_m4 birth_y4 birth_m4 age_w4_c age_w4_i in 1/50, nol
```

	aid	Inter~y4	Inter~m4	birth_y4	birth_m4	age_w4_c	age_w4_i
1.	57101310	2008	5	1976	11	31.5	31
2.	57103869	2008	5	1976	1	32.33333	32
3.	57109625	2008	11	1981	3	27.66667	27
4.	57111071	2008	6	1981	6	27	27
5.	57113943	2008	11	1979	1	29.83333	29
6.	57117542	2008	3	1979	9	28.5	28
7.	57118381	2008	5	1982	9	25.66667	25
8.	57118943	2008	10	1979	4	29.5	29
9.	57120005	2008	11	1982	9	26.16667	26
10.	57120046	2008	6	1976	10	31.66667	31
11.	57120371	2008	3	1976	8	31.58333	31
12.	57121404	2008	2	1979	7	28.58333	28
13.	57121476	2008	4	1980	10	27.5	27
14.	57127241	2008	6	1982	1	26.41667	26
15.	57129567	2008	2	1981	2	27	27
16.	57131432	2008	6	1979	1	29.41667	29
17.	57131909	2008	1	1981	7	26.5	26
18.	57133772	2008	3	1982	2	26.08333	26
19.	57134457	2008	5	1980	4	28.08333	28
20.	57134967	2008	8	1982	2	26.5	26
21.	57134970	2008	2	1980	4	27.83333	27
22.	57135078	2008	3	1980	8	27.58333	27
23.	57136630	2008	2	1980	5	27.75	27
24.	57138056	2008	6	1981	10	26.66667	26
25.	57139880	2008	3	1981	10	26.41667	26
26.	57141051	2008	5	1980	4	28.08333	28
27.	57141800	2008	2	1982	7	25.58333	25
28.	57144659	2008	4	1978	9	29.58333	29
29.	57145151	2008	2	1980	8	27.5	27
30.	57145731	2008	5	1976	8	31.75	31
31.	57146734	2008	8	1982	7	26.08333	26
32.	57153160	2008	7	1977	8	30.91667	30
33.	57154249	2008	5	1976	11	31.5	31
34.	57154779	2008	5	1981	11	26.5	26
35.	57157723	2008	5	1980	11	27.5	27
36.	57159779	2008	5	1982	5	26	26
37.	57159952	2008	2	1979	3	28.91667	28
38.	57160648	2008	2	1978	7	29.58333	29
39.	57163116	2008	5	1977	12	30.41667	30
40.	57163657	2008	5	1981	7	26.83333	26
41.	57165081	2008	7	1979	11	28.66667	28
42.	57165288	2008	5	1976	12	31.41667	31
43.	57166019	2009	1	1980	7	28.5	28
44.	57166463	2008	5	1982	10	25.58333	25
45.	57167951	2008	4	1981	2	27.16667	27
46.	57177419	2008	5	1980	9	27.66667	27
47.	57177942	2008	3	1978	1	30.16667	30
48.	57178110	2008	7	1981	8	26.91667	26
49.	57178982	2008	5	1980	11	27.5	27
50.	57179591	2008	6	1981	8	26.83333	26

```
. sum age_w4_i age_w4_c
```

Variable	Obs	Mean	Std. Dev.	Min	Max
age_w4_i	5,114	28.42257	1.811034	24	33
age_w4_c	5,114	28.88931	1.77607	24.41667	33.91667

```

.
.
.
. *****
. * Respondent's gender at W4
. *****
.

```

```

. tab1 female_w4, mis

```

```

-> tabulation of female_w4

```

BIOLOGICAL	SEX-W4	Freq.	Percent	Cum.
(1) Male		2,353	46.01	46.01
(2) Female		2,761	53.99	100.00
Total		5,114	100.00	

```

. tab1 female_w4, nol mis

```

```

-> tabulation of female_w4

```

BIOLOGICAL	SEX-W4	Freq.	Percent	Cum.
1		2,353	46.01	46.01
2		2,761	53.99	100.00
Total		5,114	100.00	

```

.
. replace female_w4 = female_w4 -1
(5,114 real changes made)

```

```

. label define female_w4 1 "(1) female" 0 "(0) male"

```

```

. label value female_w4 female_w4

```

```

. label variable female_w4 "respondent's sex at W4"

```

```

.
. tab2 bio_sex4 female_w4, mis

```

```

-> tabulation of bio_sex4 by female_w4

```

BIOLOGICAL	SEX-W4	respondent's sex at W4		Total
		(0) male	(1) femal	
(1) Male		2,353	0	2,353
(2) Female		0	2,761	2,761
Total		2,353	2,761	5,114

```

.
. *****
. * Depressed mood
. *****

```

```

. * check out the scale items

```

```

. tab1 depressed_w4 sad_w4 blues_w4, mis

```

```

-> tabulation of depressed_w4

```

S14Q22 PAST 7 DAYS FELT DEPRESSED-W4	Freq.	Percent	Cum.
(0) Never or rarely	3,616	70.71	70.71
(1) Sometimes	1,178	23.03	93.74
(2) A lot of the time	211	4.13	97.87
(3) Most of the time or all of the time	108	2.11	99.98
(6) Refused	1	0.02	100.00
Total	5,114	100.00	

-> tabulation of sad_w4

S14Q26 PAST 7 DAYS FELT SAD-W4	Freq.	Percent	Cum.
(0) Never or rarely	2,637	51.56	51.56
(1) Sometimes	2,145	41.94	93.51
(2) A lot of the time	254	4.97	98.47
(3) Most of the time or all of the time	77	1.51	99.98
(6) Refused	1	0.02	100.00
Total	5,114	100.00	

-> tabulation of blues_w4

S14Q19 PAST 7 DAYS SHAKE OFF BLUES-W4	Freq.	Percent	Cum.
(0) Never or rarely	3,870	75.67	75.67
(1) Sometimes	952	18.62	94.29
(2) A lot of the time	193	3.77	98.06
(3) Most of the time or all of the time	98	1.92	99.98
(6) Refused	1	0.02	100.00
Total	5,114	100.00	

. tab1 depressed_w4 sad_w4 blues_w4, mis nol

-> tabulation of depressed_w4

S14Q22 PAST 7 DAYS FELT DEPRESSED-W 4	Freq.	Percent	Cum.
0	3,616	70.71	70.71
1	1,178	23.03	93.74
2	211	4.13	97.87
3	108	2.11	99.98
6	1	0.02	100.00
Total	5,114	100.00	

-> tabulation of sad_w4

S14Q26 PAST 7 DAYS FELT SAD-W4	Freq.	Percent	Cum.
0	2,637	51.56	51.56
1	2,145	41.94	93.51
2	254	4.97	98.47
3	77	1.51	99.98
6	1	0.02	100.00
Total	5,114	100.00	

-> tabulation of blues_w4

S14Q19 PAST
7 DAYS
SHAKE OFF

BLUES-W4	Freq.	Percent	Cum.
0	3,870	75.67	75.67
1	952	18.62	94.29
2	193	3.77	98.06
3	98	1.92	99.98
6	1	0.02	100.00
Total	5,114	100.00	

```

.
. * recode the values of 6 through 9 to missing for these variables
. recode depressed_w4 sad_w4 blues_w4 (6/9 =.)
(depressed_w4: 1 changes made)
(sad_w4: 1 changes made)
(blues_w4: 1 changes made)

```

```

.
. * check the accuracy of variables
. tab2 h4mh22 depressed_w4, mis

```

-> tabulation of h4mh22 by depressed_w4

S14Q22 PAST 7 DAYS FELT DEPRESSED-W4	(0) Never	(1) Somet	(2) A lot	(3) Most	.	Total
(0) Never or rarely	3,616	0	0	0	0	3,616
(1) Sometimes	0	1,178	0	0	0	1,178
(2) A lot of the time	0	0	211	0	0	211
(3) Most of the time	0	0	0	108	0	108
(6) Refused	0	0	0	0	1	1
Total	3,616	1,178	211	108	1	5,114

```

. tab2 h4mh26 sad_w4, mis

```

-> tabulation of h4mh26 by sad_w4

S14Q26 PAST 7 DAYS FELT SAD-W4	(0) Never	(1) Somet	(2) A lot	(3) Most	.	Total
(0) Never or rarely	2,637	0	0	0	0	2,637
(1) Sometimes	0	2,145	0	0	0	2,145
(2) A lot of the time	0	0	254	0	0	254
(3) Most of the time	0	0	0	77	0	77
(6) Refused	0	0	0	0	1	1
Total	2,637	2,145	254	77	1	5,114

```

. tab2 h4mh19 blues_w4, mis

```

-> tabulation of h4mh19 by blues_w4

S14Q19 PAST 7 DAYS SHAKE OFF BLUES-W4	(0) Never	(1) Somet	(2) A lot	(3) Most	.	Total
(0) Never or rarely	3,870	0	0	0	0	3,870
(1) Sometimes	0	952	0	0	0	952
(2) A lot of the time	0	0	193	0	0	193
(3) Most of the time	0	0	0	98	0	98
(6) Refused	0	0	0	0	1	1
Total	3,870	952	193	98	1	5,114

```

.
.
. * check the inter-item associations of the depression mood items

```

```

. factor depressed_w4 sad_w4 blues_w4
(obs=5,113)

```

```

Factor analysis/correlation          Number of obs =      5,113
Method: principal factors           Retained factors =    1
Rotation: (unrotated)              Number of params =    3

```

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	1.63821	1.74495	1.2123	1.2123
Factor2	-0.10673	0.07347	-0.0790	1.1334
Factor3	-0.18020	.	-0.1334	1.0000

LR test: independent vs. saturated: chi2(3) = 5312.34 Prob>chi2 = 0.0000

Factor loadings (pattern matrix) and unique variances

Variable	Factor1	Uniqueness
depressed_w4	0.7885	0.3782
sad_w4	0.7228	0.4775
blues_w4	0.7028	0.5061

```
. alpha depressed_w4 sad_w4 blues_w4
```

```
Test scale = mean(unstandardized items)
```

```

Average interitem covariance:      .2541155
Number of items in the scale:      3
Scale reliability coefficient:      0.8132

```

```

.
.
. *three methods of aggregating the scale items
.
. * the sum of scale items
. gen d_score_w4_sum = depressed_w4 + sad_w4 + blues_w4
(1 missing value generated)
.
. * the rowtotal function of scale items
. egen d_score_w4_egen = rowtotal(depressed_w4 sad_w4 blues_w4)
.
. * the factor score of the scale items
. factor depressed_w4 sad_w4 blues_w4
(obs=5,113)

```

```

Factor analysis/correlation          Number of obs =      5,113
Method: principal factors           Retained factors =    1
Rotation: (unrotated)              Number of params =    3

```

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	1.63821	1.74495	1.2123	1.2123
Factor2	-0.10673	0.07347	-0.0790	1.1334
Factor3	-0.18020	.	-0.1334	1.0000

LR test: independent vs. saturated: chi2(3) = 5312.34 Prob>chi2 = 0.0000

Factor loadings (pattern matrix) and unique variances

Variable	Factor1	Uniqueness
depressed_w4	0.7885	0.3782
sad_w4	0.7228	0.4775
blues_w4	0.7028	0.5061

```
. predict d_score_w4_fs
(regression scoring assumed)
```

```
Scoring coefficients (method = regression)
```

```
-----
Variable | Factor1
-----+-----
depressed_w4 | 0.42002
sad_w4 | 0.30683
blues_w4 | 0.28348
-----
```

```
.
. label variable d_score_w4_sum "depression score at W4, sum score"
. label variable d_score_w4_egen "depression score at W4, egen function"
. label variable d_score_w4_fs "depression score at W4, factor score"
```

```
.
. sum d_score_w4_sum d_score_w4_egen d_score_w4_fs
```

```
-----+-----+-----+-----+-----+-----
Variable | Obs Mean Std. Dev. Min Max
-----+-----+-----+-----+-----+-----
d_score_w4~m | 5,113 1.259535 1.676998 0 9
d_score_w4~n | 5,114 1.259288 1.676927 0 9
d_score_w4~s | 5,113 5.91e-09 .8673064 -.6410567 3.976017
-----+-----+-----+-----+-----+-----
```

```
.
. list aid depressed_w4 sad_w4 blues_w4 d_score_w4_sum d_score_w4_egen d_score_w4_fs if
d_score_w4_sum ==., sepby(aid) nol
```

```
-----+-----+-----+-----+-----+-----+-----+
| aid depres~4 sad_w4 blues_w4 d_scor~m d_scor~n d_scor~s |
-----+-----+-----+-----+-----+-----+-----+
2096. | 93718361 . . . . 0 . |
-----+-----+-----+-----+-----+-----+-----+
```

```
.
.
. *****
. * generate the indicator variable
. *****
```

```
. gen in_w4 =1
. label variable in_w4 "respondents of W4"
. label define in_w4 0 " (0) not in W4" 1 "(1) in W4"
. label value in_w4 in_w4
. tab1 in_w4, mis
```

```
-> tabulation of in_w4
```

```
respondents of |
W4 | Freq. Percent Cum.
-----+-----+-----+-----
(1) in W4 | 5,114 100.00 100.00
-----+-----+-----+-----
Total | 5,114 100.00
```

```
.
.
. *****
```

```

. * Save the data
. *****
.
. sort aid

. save "D:\jason\workshop\Stata workshop\w4.dta", replace
file D:\jason\workshop\Stata workshop\w4.dta saved

.
.
.
.
.
.
. *****
. * Read in Wave 5 data
. * The codebook showed the number of observation is 4,882
. * The name of ID variable: aid
. *****
.
.
. *****
*
. * Check the accuracy of w3 data
. * N = 4,196
. * Each value of the ID variable is associated with one record, meaning the data is in wide
format
.
. *****
*
. use "D:\jason\workshop\Stata workshop\ICPSR_21600\DS0032\21600-0032-Data.dta", clear
(National Longitudinal Study of Adolescent to Adult Health (Add Health), 1994-201)

.
. *****
. * change the name of variable from uppercase to lowercase
. *****
. rename *, lower

.
. *****
. * Check if the number of observation is correctd
. *****
. count
. 4,196

.
.
. *****
. * check if each value of the ID variable is associated with just one record
. *****
.
. duplicates report aid

Duplicates in terms of aid

-----
copies | observations      surplus
-----+-----
      1 |          4196          0
-----
.
. sort aid

. bysort aid: gen n = _n

. bysort aid: gen N = _N

. tab1 n N, mis

```

-> tabulation of n

n	Freq.	Percent	Cum.
1	4,196	100.00	100.00
Total	4,196	100.00	

-> tabulation of N

N	Freq.	Percent	Cum.
1	4,196	100.00	100.00
Total	4,196	100.00	

. drop n N

```
.
.
. *****
. * select variables
. *****
.
. keep aid iyear5 imonth5 h5od1y h5od1m h5od2a h5od4a h5od4b h5od4f h5od4d h5od4e h5od8 h5od4c
h5od4g h5ss0b h5ss0d h5ss0a
```

```
.
.
. *****
. * Create a temporary data file to avoid accidentally overwriting the original data file
. *****
.
. save "D:\jason\workshop\Stata workshop\w5_temp.dta", replace
file D:\jason\workshop\Stata workshop\w5_temp.dta saved
```

```
.
.
. *****
. * read in the temporary data file
. *****
.
. use "D:\jason\workshop\Stata workshop\w5_temp.dta", clear
(National Longitudinal Study of Adolescent to Adult Health (Add Health), 1994-201)
```

```
.
. *****
. * check the attributes of the variables
. *****
.
. des aid iyear5 imonth5 h5od1y h5od1m h5od2a h5od4a h5od4b h5od4f h5od4d h5od4e h5od8 h5od4c
h5od4g h5ss0b h5ss0d h5ss0a
```

variable name	storage type	display format	value label	variable label
aid	str8	%9s		RESPONDENT IDENTIFIER
iyear5	int	%4.0f		YEAR OF WAVE V SURVEY
imonth5	int	%2.0f		MONTH OF WAVE V SURVEY
h5od1y	int	%4.0f		S1Q1B BIRTH YEAR-W5
h5od1m	int	%2.0f		S1Q1A BIRTH MONTH-W5
h5od2a	int	%1.0f		S1Q2A SEX ASSIGNED AT BIRTH-W5
h5od4a	int	%1.0f		S1Q4A RACE-WHITE-W5
h5od4b	int	%1.0f		S1Q4B RACE-BLACK/AFRICAN AM-W5
h5od4f	int	%1.0f		S1Q4F RACE-AM INDIAN/ALSK NATIVE-W5
h5od4d	int	%1.0f		S1Q4D RACE-ASIAN-W5
h5od4e	int	%1.0f		S1Q4E RACE-PACIFIC ISLANDER-W5
h5od8	int	%3.0f		S1Q8 RACE-SINGLE CATEGORY IDENTIFY-W5
h5od4c	int	%1.0f		S1Q4C RACE-HISPANIC-W5


```

h5od4g      int      %1.0f      S1Q4G RACE-OTHER-W5
h5ss0b      int      %1.0f      S10Q0B PAST 7 DAY DEPRESSED-W5
h5ss0d      int      %1.0f      S10Q0D PAST 7 DAY SAD-W5
h5ss0a      int      %1.0f      S10Q0A PAST 7 DAY SHAKE BLUE-W5

```

```

.
.
.
. *Add value labels
. tab1 iyear5 imonth5 h5odly h5od1m h5od2a h5od4a h5od4b h5od4f h5od4d h5od4e h5od8 h5od4c
h5od4g h5ss0b h5ss0d h5ss0a, mis

```

-> tabulation of iyear5

YEAR OF | WAVE V | SURVEY |	Freq.	Percent	Cum.
2016 |	1,184	28.22	28.22
2017 |	2,151	51.26	79.48
2018 |	861	20.52	100.00
Total |	4,196	100.00	

-> tabulation of imonth5

MONTH OF | WAVE V | SURVEY |	Freq.	Percent	Cum.
1 |	186	4.43	4.43
2 |	120	2.86	7.29
3 |	358	8.53	15.82
4 |	203	4.84	20.66
5 |	137	3.27	23.93
6 |	437	10.41	34.34
7 |	641	15.28	49.62
8 |	1,131	26.95	76.57
9 |	371	8.84	85.41
10 |	285	6.79	92.21
11 |	181	4.31	96.52
12 |	146	3.48	100.00
Total |	4,196	100.00	

-> tabulation of h5odly

S1Q1B BIRTH | YEAR-W5 |	Freq.	Percent	Cum.
1976 |	82	1.95	1.95
1977 |	491	11.70	13.66
1978 |	746	17.78	31.43
1979 |	726	17.30	48.74
1980 |	712	16.97	65.71
1981 |	688	16.40	82.10
1982 |	577	13.75	95.85
1983 |	174	4.15	100.00
Total |	4,196	100.00	

-> tabulation of h5od1m

S1Q1A BIRTH | MONTH-W5 |	Freq.	Percent	Cum.
1 |	338	8.06	8.06
2 |	321	7.65	15.71
3 |	366	8.72	24.43
4 |	331	7.89	32.32
5 |	359	8.56	40.87

6	|	326	7.77	48.64
7	|	388	9.25	57.89
8	|	364	8.67	66.56
9	|	357	8.51	75.07
10	|	376	8.96	84.03
11	|	319	7.60	91.63
12	|	351	8.37	100.00

Total	|	4,196	100.00	
-------	--	-------	--------	--

-> tabulation of h5od2a

S1Q2A SEX |				
ASSIGNED AT |				
BIRTH-W5 |		Freq.	Percent	Cum.

1	|	1,802	42.95	42.95
2	|	2,394	57.05	100.00

Total	|	4,196	100.00	

-> tabulation of h5od4a

S1Q4A |				
RACE-WHITE- |				
W5 |		Freq.	Percent	Cum.

0	|	1,340	31.94	31.94
1	|	2,844	67.78	99.71
.	|	12	0.29	100.00

Total	|	4,196	100.00	

-> tabulation of h5od4b

S1Q4B |				
RACE-BLACK/ |				
AFRICAN |				
AM-W5 |		Freq.	Percent	Cum.

0	|	3,274	78.03	78.03
1	|	910	21.69	99.71
.	|	12	0.29	100.00

Total	|	4,196	100.00	

-> tabulation of h5od4f

S1Q4F |				
RACE-AM |				
INDIAN/ALSK |				
NATIVE-W5 |		Freq.	Percent	Cum.

0	|	4,063	96.83	96.83
1	|	121	2.88	99.71
.	|	12	0.29	100.00

Total	|	4,196	100.00	

-> tabulation of h5od4d

S1Q4D |				
RACE-ASIAN- |				
W5 |		Freq.	Percent	Cum.

0	|	4,028	96.00	96.00
1	|	156	3.72	99.71
.	|	12	0.29	100.00

Total	|	4,196	100.00	

-> tabulation of h5od4e

S1Q4E | RACE-PACIFI C | ISLANDER-W5 |	Freq.	Percent	Cum.
0 |	4,146	98.81	98.81
1 |	38	0.91	99.71
. |	12	0.29	100.00
Total |	4,196	100.00	

-> tabulation of h5od8

S1Q8 | RACE-SINGLE CATEGORY | IDENTIFY-W5 |	Freq.	Percent	Cum.
1 |	111	2.65	2.65
2 |	63	1.50	4.15
3 |	15	0.36	4.50
4 |	30	0.71	5.22
7 |	12	0.29	5.51
11 |	10	0.24	5.74
15 |	14	0.33	6.08
21 |	13	0.31	6.39
997 |	3,905	93.06	99.45
. |	23	0.55	100.00
Total |	4,196	100.00	

-> tabulation of h5od4c

S1Q4C | RACE-HISPAN IC-W5 |	Freq.	Percent	Cum.
0 |	3,778	90.04	90.04
1 |	406	9.68	99.71
. |	12	0.29	100.00
Total |	4,196	100.00	

-> tabulation of h5od4g

S1Q4G | RACE-OTHER- W5 |	Freq.	Percent	Cum.
0 |	4,158	99.09	99.09
1 |	26	0.62	99.71
. |	12	0.29	100.00
Total |	4,196	100.00	

-> tabulation of h5ss0b

S1Q0B PAST | 7 DAY | DEPRESSED-W 5 |	Freq.	Percent	Cum.
1 |	2,882	68.68	68.68
2 |	1,008	24.02	92.71
3 |	187	4.46	97.16
4 |	98	2.34	99.50
. |	21	0.50	100.00
Total |	4,196	100.00	

-> tabulation of h5ss0d

```
S10Q0D PAST |
7 DAY |
SAD-W5 | Freq. Percent Cum.
-----+-----
1 | 2,109 50.26 50.26
2 | 1,786 42.56 92.83
3 | 195 4.65 97.47
4 | 81 1.93 99.40
. | 25 0.60 100.00
-----+-----
Total | 4,196 100.00
```

-> tabulation of h5ss0a

```
S10Q0A PAST |
7 DAY SHAKE |
BLUE-W5 | Freq. Percent Cum.
-----+-----
1 | 3,081 73.43 73.43
2 | 773 18.42 91.85
3 | 216 5.15 97.00
4 | 107 2.55 99.55
. | 19 0.45 100.00
-----+-----
Total | 4,196 100.00
```

```
.
.
. *
. label define h5od2a 2 "(2) female" 1 "(1) male"
. label value h5od2a h5od2a
.
. tab1 h5od4a h5od4b h5od4f h5od4d h5od4e h5od8 h5od4c h5od4g, mis
```

-> tabulation of h5od4a

```
S1Q4A |
RACE-WHITE- |
W5 | Freq. Percent Cum.
-----+-----
0 | 1,340 31.94 31.94
1 | 2,844 67.78 99.71
. | 12 0.29 100.00
-----+-----
Total | 4,196 100.00
```

-> tabulation of h5od4b

```
S1Q4B |
RACE-BLACK/ |
AFRICAN |
AM-W5 | Freq. Percent Cum.
-----+-----
0 | 3,274 78.03 78.03
1 | 910 21.69 99.71
. | 12 0.29 100.00
-----+-----
Total | 4,196 100.00
```

-> tabulation of h5od4f

```
S1Q4F |
RACE-AM |
INDIAN/ALSK |
NATIVE-W5 | Freq. Percent Cum.
-----+-----
```

0	|	4,063	96.83	96.83
1	|	121	2.88	99.71
.	|	12	0.29	100.00

Total	|	4,196	100.00	

-> tabulation of h5od4d

S1Q4D	|			
RACE-ASIAN-	|			
W5	|	Freq.	Percent	Cum.

0	|	4,028	96.00	96.00
1	|	156	3.72	99.71
.	|	12	0.29	100.00

Total	|	4,196	100.00	

-> tabulation of h5od4e

S1Q4E	|			
RACE-PACIFI	|			
C	|			
ISLANDER-W5	|	Freq.	Percent	Cum.

0	|	4,146	98.81	98.81
1	|	38	0.91	99.71
.	|	12	0.29	100.00

Total	|	4,196	100.00	

-> tabulation of h5od8

S1Q8	|			
RACE-SINGLE	|			
CATEGORY	|			
IDENTIFY-W5	|	Freq.	Percent	Cum.

1	|	111	2.65	2.65
2	|	63	1.50	4.15
3	|	15	0.36	4.50
4	|	30	0.71	5.22
7	|	12	0.29	5.51
11	|	10	0.24	5.74
15	|	14	0.33	6.08
21	|	13	0.31	6.39
997	|	3,905	93.06	99.45
.	|	23	0.55	100.00

Total	|	4,196	100.00	

-> tabulation of h5od4c

S1Q4C	|			
RACE-HISPAN	|			
IC-W5	|	Freq.	Percent	Cum.

0	|	3,778	90.04	90.04
1	|	406	9.68	99.71
.	|	12	0.29	100.00

Total	|	4,196	100.00	

-> tabulation of h5od4g

S1Q4G	|			
RACE-OTHER-	|			
W5	|	Freq.	Percent	Cum.

0	|	4,158	99.09	99.09
1	|	26	0.62	99.71

.	|	12	0.29	100.00

Total	|	4,196	100.00	

. label define yesno 1 "(1) yes" 0 "(1) no"

- . label value h5od4a yesno
- . label value h5od4b yesno
- . label value h5od4f yesno
- . label value h5od4d yesno
- . label value h5od4e yesno
- . label value h5od4c yesno
- . label value h5od4g yesno

. label define h5od8 1 "(1) White" 2 "(2) Black, African American" 3 "(3) Hispanic" 4 "(4) Hispanic: Mexican, Mexican American, Chicano" ///
> 7 "(7) Other Hispanic, Latino, or Spanish origin" 11 "(11) Asian: Filipino" 15 "(15) Other Asian" 21 "(21) American Indian or Alaska Native" ///
> 997 "(997) legitimate skip"

. label value h5od8 h5od8

. tab1 h5od8, mis

-> tabulation of h5od8

S1Q8 RACE-SINGLE CATEGORY IDENTIFY-W5	Freq.	Percent	Cum.
(1) White	111	2.65	2.65
(2) Black, African American	63	1.50	4.15
(3) Hispanic	15	0.36	4.50
(4) Hispanic: Mexican, Mexican American	30	0.71	5.22
(7) Other Hispanic, Latino, or Spanish	12	0.29	5.51
(11) Asian: Filipino	10	0.24	5.74
(15) Other Asian	14	0.33	6.08
(21) American Indian or Alaska Native	13	0.31	6.39
(997) legitimate skip	3,905	93.06	99.45
.	23	0.55	100.00

Total	4,196	100.00	

. label define depressed 1 "(1) never or rarely" 2 "(2) sometimes" ///
> 3 "(3) a lot of the time" 4 "(4) most of the time or all of the time"

- . label value h5ss0a depressed
- . label value h5ss0b depressed
- . label value h5ss0d depressed

. tab1 h5ss0a h5ss0b h5ss0d, mis

-> tabulation of h5ss0a

S10Q0A PAST 7 DAY SHAKE BLUE-W5	Freq.	Percent	Cum.
---------------------------------	-------	---------	------

	Freq.	Percent	Cum.
(1) never or rarely	3,081	73.43	73.43
(2) sometimes	773	18.42	91.85
(3) a lot of the time	216	5.15	97.00
(4) most of the time or all of the time	107	2.55	99.55
.	19	0.45	100.00
Total	4,196	100.00	

-> tabulation of h5ss0b

S10Q0B PAST 7 DAY DEPRESSED-W5	Freq.	Percent	Cum.
(1) never or rarely	2,882	68.68	68.68
(2) sometimes	1,008	24.02	92.71
(3) a lot of the time	187	4.46	97.16
(4) most of the time or all of the time	98	2.34	99.50
.	21	0.50	100.00
Total	4,196	100.00	

-> tabulation of h5ss0d

S10Q0D PAST 7 DAY SAD-W5	Freq.	Percent	Cum.
(1) never or rarely	2,109	50.26	50.26
(2) sometimes	1,786	42.56	92.83
(3) a lot of the time	195	4.65	97.47
(4) most of the time or all of the time	81	1.93	99.40
.	25	0.60	100.00
Total	4,196	100.00	

```

.
.
.
. *****
. * Makde a copy of these variables
. *****
. clonevar      Interview_y5      =      iyear5
. clonevar      Interview_m5      =      imonth5
. clonevar      birth_y5          =      h5od1y
. clonevar      birth_m5          =      h5od1m
. clonevar      female_w5         =      h5od2a
. clonevar      white_w5          =      h5od4a
(12 missing values generated)
. clonevar      black_w5          =      h5od4b
(12 missing values generated)
. clonevar      indian_w5         =      h5od4f
(12 missing values generated)
. clonevar      asian_w5          =      h5od4d
(12 missing values generated)
. clonevar      islander_w5       =      h5od4e
(12 missing values generated)
. clonevar      best_category_w5 =      h5od8
(23 missing values generated)
. clonevar      hispanic_w5       =      h5od4c
(12 missing values generated)
. clonevar      other_w5          =      h5od4g

```

(12 missing values generated)

. clonevar depressed_w5 = h5ss0b
(21 missing values generated)

. clonevar sad_w5 = h5ss0d
(25 missing values generated)

. clonevar blues_w5 = h5ss0a
(19 missing values generated)

.
.

. * Collapse the response categories of best_category_w5 and make them comparable to those at W3
. * Therefore, the same syntax can be used for data at both Waves
.

. recode best_category_w5 (3/7=3) (11/15=4) (21=5) (997=.)
(best_category_w5: 3984 changes made)

. label define best_category_w5 1 "(1) race-white" 2 "(2) race-black" 3 "(3)race-hispanic" 4
"(4) race-asian" 5 "(5)race-american indians or Alaska Nativ
> e"

. label value best_category_w5 best_category_w5

. tab1 best_category_w5, mis

-> tabulation of best_category_w5

S1Q8 RACE-SINGLE CATEGORY IDENTIFY-W5 |	Freq.	Percent	Cum.
(1) race-white |	111	2.65	2.65
(2) race-black |	63	1.50	4.15
(3)race-hispanic |	57	1.36	5.51
(4) race-asian |	24	0.57	6.08
(5)race-american indians or Alaska Nativ |	13	0.31	6.39
. |	3,928	93.61	100.00

Total |	4,196	100.00	

. tab2 h5od8 best_category_w5, mis

-> tabulation of h5od8 by best_category_w5

S1Q8 RACE-SINGLE CATEGORY IDENTIFY-W5 |	S1Q8 RACE-SINGLE CATEGORY IDENTIFY-W5					.	Total
CATEGORY IDENTIFY-W5 |	(1) race-	(2) race-	(3)race-h	(4) race-	(5)race-a		
(1) White |	111	0	0	0	0	0 |	111
(2) Black, African Am |	0	63	0	0	0	0 |	63
(3) Hispanic |	0	0	15	0	0	0 |	15
(4) Hispanic: Mexican |	0	0	30	0	0	0 |	30
(7) Other Hispanic, L |	0	0	12	0	0	0 |	12
(11) Asian: Filipino |	0	0	0	10	0	0 |	10
(15) Other Asian |	0	0	0	14	0	0 |	14
(21) American Indian |	0	0	0	0	13	0 |	13
(997) legitimate skip |	0	0	0	0	0	3,905 |	3,905
. |	0	0	0	0	0	23 |	23

Total |	111	63	57	24	13	3,928 |	4,196

.
.

. * Create the Age variable

. tab1 Interview_y5 Interview_m5 birth_y5 birth_m5, mis

-> tabulation of Interview_y5

YEAR OF WAVE V SURVEY	Freq.	Percent	Cum.
2016	1,184	28.22	28.22
2017	2,151	51.26	79.48
2018	861	20.52	100.00
Total	4,196	100.00	

-> tabulation of Interview_m5

MONTH OF WAVE V SURVEY	Freq.	Percent	Cum.
1	186	4.43	4.43
2	120	2.86	7.29
3	358	8.53	15.82
4	203	4.84	20.66
5	137	3.27	23.93
6	437	10.41	34.34
7	641	15.28	49.62
8	1,131	26.95	76.57
9	371	8.84	85.41
10	285	6.79	92.21
11	181	4.31	96.52
12	146	3.48	100.00
Total	4,196	100.00	

-> tabulation of birth_y5

S1Q1B BIRTH YEAR-W5	Freq.	Percent	Cum.
1976	82	1.95	1.95
1977	491	11.70	13.66
1978	746	17.78	31.43
1979	726	17.30	48.74
1980	712	16.97	65.71
1981	688	16.40	82.10
1982	577	13.75	95.85
1983	174	4.15	100.00
Total	4,196	100.00	

-> tabulation of birth_m5

S1Q1A BIRTH MONTH-W5	Freq.	Percent	Cum.
1	338	8.06	8.06
2	321	7.65	15.71
3	366	8.72	24.43
4	331	7.89	32.32
5	359	8.56	40.87
6	326	7.77	48.64
7	388	9.25	57.89
8	364	8.67	66.56
9	357	8.51	75.07
10	376	8.96	84.03
11	319	7.60	91.63
12	351	8.37	100.00
Total	4,196	100.00	

. tab1 Interview_y5 Interview_m5 birth_y5 birth_m5, nol mis

-> tabulation of Interview_y5

YEAR OF WAVE SURVEY	Freq.	Percent	Cum.
2016	1,184	28.22	28.22
2017	2,151	51.26	79.48
2018	861	20.52	100.00
Total	4,196	100.00	

-> tabulation of Interview_m5

MONTH OF WAVE SURVEY	Freq.	Percent	Cum.
1	186	4.43	4.43
2	120	2.86	7.29
3	358	8.53	15.82
4	203	4.84	20.66
5	137	3.27	23.93
6	437	10.41	34.34
7	641	15.28	49.62
8	1,131	26.95	76.57
9	371	8.84	85.41
10	285	6.79	92.21
11	181	4.31	96.52
12	146	3.48	100.00
Total	4,196	100.00	

-> tabulation of birth_y5

S1Q1B BIRTH YEAR-W5	Freq.	Percent	Cum.
1976	82	1.95	1.95
1977	491	11.70	13.66
1978	746	17.78	31.43
1979	726	17.30	48.74
1980	712	16.97	65.71
1981	688	16.40	82.10
1982	577	13.75	95.85
1983	174	4.15	100.00
Total	4,196	100.00	

-> tabulation of birth_m5

S1Q1A BIRTH MONTH-W5	Freq.	Percent	Cum.
1	338	8.06	8.06
2	321	7.65	15.71
3	366	8.72	24.43
4	331	7.89	32.32
5	359	8.56	40.87
6	326	7.77	48.64
7	388	9.25	57.89
8	364	8.67	66.56
9	357	8.51	75.07
10	376	8.96	84.03
11	319	7.60	91.63
12	351	8.37	100.00
Total	4,196	100.00	

```
.
.
. gen cm_interview_w5 = (Interview_y5-1900)*12+Interview_m5
```

```

. gen cm_birth_w5      = (birth_y5-1900)*12+birth_m5
.
.
.
. label variable cm_interview_w5 "interview date at W5, century month"
. label variable cm_birth_w5     "birth date from W5, century month"
.
.
. tabl cm_interview_w5 cm_birth_w5, mis

```

-> tabulation of cm_interview_w5

interview | date at W5, | century | month |	Freq.	Percent	Cum.
1395 |	20	0.48	0.48
1396 |	2	0.05	0.52
1397 |	4	0.10	0.62
1398 |	281	6.70	7.32
1399 |	418	9.96	17.28
1400 |	191	4.55	21.83
1401 |	75	1.79	23.62
1402 |	63	1.50	25.12
1403 |	72	1.72	26.84
1404 |	58	1.38	28.22
1405 |	59	1.41	29.62
1406 |	50	1.19	30.82
1407 |	262	6.24	37.06
1408 |	105	2.50	39.56
1409 |	64	1.53	41.09
1410 |	69	1.64	42.73
1411 |	195	4.65	47.38
1412 |	824	19.64	67.02
1413 |	205	4.89	71.90
1414 |	123	2.93	74.83
1415 |	107	2.55	77.38
1416 |	88	2.10	79.48
1417 |	127	3.03	82.51
1418 |	70	1.67	84.18
1419 |	76	1.81	85.99
1420 |	96	2.29	88.27
1421 |	69	1.64	89.92
1422 |	87	2.07	91.99
1423 |	28	0.67	92.66
1424 |	116	2.76	95.42
1425 |	91	2.17	97.59
1426 |	99	2.36	99.95
1427 |	2	0.05	100.00
Total |	4,196	100.00	

-> tabulation of cm_birth_w5

birth date | from W5, | century | month |	Freq.	Percent	Cum.
913 |	5	0.12	0.12
914 |	8	0.19	0.31
915 |	12	0.29	0.60
916 |	11	0.26	0.86
917 |	8	0.19	1.05
918 |	1	0.02	1.07
919 |	9	0.21	1.29

920	|	7	0.17	1.45
921	|	2	0.05	1.50
922	|	1	0.02	1.53
923	|	9	0.21	1.74
924	|	9	0.21	1.95
925	|	52	1.24	3.19
926	|	53	1.26	4.46
927	|	63	1.50	5.96
928	|	48	1.14	7.10
929	|	69	1.64	8.75
930	|	7	0.17	8.91
931	|	11	0.26	9.18
932	|	17	0.41	9.58
933	|	21	0.50	10.08
934	|	35	0.83	10.92
935	|	50	1.19	12.11
936	|	65	1.55	13.66
937	|	75	1.79	15.44
938	|	56	1.33	16.78
939	|	60	1.43	18.21
940	|	59	1.41	19.61
941	|	62	1.48	21.09
942	|	55	1.31	22.40
943	|	75	1.79	24.19
944	|	51	1.22	25.41
945	|	64	1.53	26.93
946	|	74	1.76	28.69
947	|	48	1.14	29.84
948	|	67	1.60	31.43
949	|	60	1.43	32.86
950	|	57	1.36	34.22
951	|	66	1.57	35.80
952	|	51	1.22	37.01
953	|	66	1.57	38.58
954	|	56	1.33	39.92
955	|	53	1.26	41.18
956	|	66	1.57	42.76
957	|	74	1.76	44.52
958	|	58	1.38	45.90
959	|	58	1.38	47.28
960	|	61	1.45	48.74
961	|	61	1.45	50.19
962	|	47	1.12	51.31
963	|	61	1.45	52.76
964	|	64	1.53	54.29
965	|	51	1.22	55.51
966	|	64	1.53	57.03
967	|	68	1.62	58.65
968	|	65	1.55	60.20
969	|	63	1.50	61.70
970	|	68	1.62	63.32
971	|	46	1.10	64.42
972	|	54	1.29	65.71
973	|	44	1.05	66.75
974	|	53	1.26	68.02
975	|	55	1.31	69.33
976	|	48	1.14	70.47
977	|	51	1.22	71.69
978	|	55	1.31	73.00
979	|	66	1.57	74.57
980	|	68	1.62	76.19
981	|	75	1.79	77.98
982	|	70	1.67	79.65
983	|	55	1.31	80.96
984	|	48	1.14	82.10
985	|	41	0.98	83.08
986	|	47	1.12	84.20
987	|	49	1.17	85.37
988	|	50	1.19	86.56
989	|	52	1.24	87.80
990	|	50	1.19	88.99

991	60	1.43	90.42
992	51	1.22	91.63
993	37	0.88	92.52
994	53	1.26	93.78
995	43	1.02	94.80
996	44	1.05	95.85
1002	38	0.91	96.76
1003	46	1.10	97.86
1004	39	0.93	98.78
1005	21	0.50	99.29
1006	17	0.41	99.69
1007	10	0.24	99.93
1008	3	0.07	100.00

Total	4,196	100.00	

```

.
.
. gen age_w5_c = (cm_interview_w5-cm_birth_w5)/12
. gen age_w5_i = floor((cm_interview_w5-cm_birth_w5)/12)
.
.
. label variable age_w5_c "respondent's age at w5, continuous"
. label variable age_w5_i "respondent's age at w5, integer"
.
. list aid Interview_y5 Interview_m5 birth_y5 birth_m5 age_w5_c age_w5_i in 1/50, nol

```

	aid	Inter~y5	Inter~m5	birth_y5	birth_m5	age_w5_c	age_w5_i
1.	57101310	2017	3	1977	11	39.33333	39
2.	57111071	2017	2	1982	6	34.66667	34
3.	57111786	2018	4	1981	9	36.58333	36
4.	57113943	2018	7	1979	1	39.5	39
5.	57117997	2018	9	1983	10	34.91667	34

6.	57118381	2016	6	1983	9	32.75	32
7.	57118943	2018	2	1979	4	38.83333	38
8.	57121404	2017	7	1980	7	37	37
9.	57121476	2016	7	1981	10	34.75	34
10.	57123494	2018	6	1978	2	40.33333	40

11.	57129567	2017	9	1981	2	36.58333	36
12.	57130633	2018	6	1980	1	38.41667	38
13.	57131909	2017	8	1982	7	35.08333	35
14.	57133772	2017	9	1982	2	35.58333	35
15.	57134457	2017	8	1980	4	37.33333	37

16.	57134970	2018	8	1980	4	38.33333	38
17.	57136630	2016	7	1980	5	36.16667	36
18.	57139880	2017	7	1982	10	34.75	34
19.	57141051	2016	8	1980	4	36.33333	36
20.	57141800	2017	8	1983	7	34.08333	34

21.	57144659	2018	3	1979	9	38.5	38
22.	57145151	2016	6	1981	8	34.83333	34
23.	57146734	2018	5	1983	7	34.83333	34
24.	57154247	2016	12	1978	4	38.66667	38
25.	57154249	2018	10	1977	11	40.91667	40

26.	57157723	2017	9	1981	11	35.83333	35
27.	57159779	2017	12	1982	5	35.58333	35
28.	57159952	2018	2	1979	3	38.91667	38
29.	57160648	2017	1	1979	7	37.5	37
30.	57163116	2016	12	1978	12	38	38

31.	|	57163657	2018	1	1982	7	35.5	35	|
32.	|	57164981	2017	4	1982	8	34.66667	34	|
33.	|	57165288	2018	10	1977	12	40.83333	40	|
34.	|	57165348	2018	3	1977	2	41.08333	41	|
35.	|	57166019	2017	6	1981	7	35.91667	35	|

36.	|	57166463	2017	8	1983	10	33.83333	33	|
37.	|	57167951	2017	4	1981	2	36.16667	36	|
38.	|	57177419	2016	7	1981	9	34.83333	34	|
39.	|	57178110	2017	8	1982	8	35	35	|
40.	|	57178982	2016	8	1981	11	34.75	34	|

41.	|	57179591	2017	7	1982	8	34.91667	34	|
42.	|	57186150	2016	7	1979	3	37.33333	37	|
43.	|	57186582	2016	3	1979	9	36.5	36	|
44.	|	57188247	2016	9	1980	9	36	36	|
45.	|	57191909	2017	10	1977	11	39.91667	39	|

46.	|	57192841	2017	11	1981	6	36.41667	36	|
47.	|	57193349	2017	3	1978	1	39.16667	39	|
48.	|	57196641	2017	11	1979	6	38.41667	38	|
49.	|	57197327	2017	8	1976	7	41.08333	41	|
50.	|	57199896	2016	7	1980	5	36.16667	36	|

```
. sum age_w5_i age_w5_c
```

Variable	Obs	Mean	Std. Dev.	Min	Max
age_w5_i	4,196	36.89704	1.987777	32	42
age_w5_c	4,196	37.34944	1.964039	32.5	42.58333

```
.
.
.
.
. *****
. * Respondent's gender at W5
. *****
.
.
```

```
. tab1 female_w5, mis
```

```
-> tabulation of female_w5
```

S1Q2A SEX |	Assigned AT |	BIRTH-W5 |	Freq.	Percent	Cum.
(1) male	|		1,802	42.95	42.95
(2) female	|		2,394	57.05	100.00
Total	|		4,196	100.00	

```
. tab1 female_w5, nol mis
```

```
-> tabulation of female_w5
```

S1Q2A SEX |	Assigned AT |	BIRTH-W5 |	Freq.	Percent	Cum.
1	|		1,802	42.95	42.95
2	|		2,394	57.05	100.00
Total	|		4,196	100.00	

```
.
. replace female_w5 = female_w5 -1
(4,196 real changes made)
```

```
. label define female_w5 1 "(1) female" 0 "(0) male"
```

```
. label value female_w5 female_w5
. label variable female_w5 "respondent's sex at W5"
```

```
.
. tab2 h5od2a female_w5, mis
-> tabulation of h5od2a by female_w5
```

S1Q2A SEX |	ASSIGNED | respondent's sex at		
AT |	W5		
BIRTH-W5 |	(0) male	(1) femal	Total
(1) male |	1,802	0	1,802
(2) female |	0	2,394	2,394
Total |	1,802	2,394	4,196

```
.
.
. *****
. * Respondent's race at W5
. *****
.
.
. tab1 white_w5 black_w5 indian_w5 asian_w5 islander_w5 hispanic_w5, mis
```

```
-> tabulation of white_w5
```

S1Q4A |	RACE-WHITE-		
W5 |	Freq.	Percent	Cum.
(1) no |	1,340	31.94	31.94
(1) yes |	2,844	67.78	99.71
. |	12	0.29	100.00
Total |	4,196	100.00	

```
-> tabulation of black_w5
```

S1Q4B |	RACE-BLACK/		
AFRICAN |	AM-W5 |		
AM-W5 |	Freq.	Percent	Cum.
(1) no |	3,274	78.03	78.03
(1) yes |	910	21.69	99.71
. |	12	0.29	100.00
Total |	4,196	100.00	

```
-> tabulation of indian_w5
```

S1Q4F |	RACE-AM |		
INDIAN/ALSK |	NATIVE-W5 |		
NATIVE-W5 |	Freq.	Percent	Cum.
(1) no |	4,063	96.83	96.83
(1) yes |	121	2.88	99.71
. |	12	0.29	100.00
Total |	4,196	100.00	

```
-> tabulation of asian_w5
```

S1Q4D |	RACE-ASIAN-
-------	-------------

W5	Freq.	Percent	Cum.
(1) no	4,028	96.00	96.00
(1) yes	156	3.72	99.71
.	12	0.29	100.00
Total	4,196	100.00	

-> tabulation of islander_w5

S1Q4E RACE-PACIFI C ISLANDER-W5	Freq.	Percent	Cum.
(1) no	4,146	98.81	98.81
(1) yes	38	0.91	99.71
.	12	0.29	100.00
Total	4,196	100.00	

-> tabulation of hispanic_w5

S1Q4C RACE-HISPAN IC-W5	Freq.	Percent	Cum.
(1) no	3,778	90.04	90.04
(1) yes	406	9.68	99.71
.	12	0.29	100.00
Total	4,196	100.00	

.
.
. tab2 asian_w5 islander_w5, mis

-> tabulation of asian_w5 by islander_w5

S1Q4D RACE-ASIAN -W5	S1Q4E (1) no	RACE-PACIFIC (1) yes	ISLANDER-W5 .	Total
(1) no	4,001	27	0	4,028
(1) yes	145	11	0	156
.	0	0	12	12
Total	4,146	38	12	4,196

.
. gen asian_islander_w5 = .
(4,196 missing values generated)
. replace asian_islander_w5 =1 if asian_w5 ==1 | islander_w5 ==1
(183 real changes made)
. label variable asian_islander_w5 "RACE-Asian or Islanders-W5"
. label value asian_islander_w5 yesno
. tab1 asian_islander_w5, mis

-> tabulation of asian_islander_w5

RACE-Asian or Islanders-W 5	Freq.	Percent	Cum.
(1) yes	183	4.36	4.36
.	4,013	95.64	100.00


```

-----+-----
      Total |      4,196      100.00
.
.
.
. gen str1 s_white_w5 = "."
. gen str1 s_black_w5 = "."
. gen str1 s_indian_w5 = "."
. gen str2 s_asian_islander_w5 = ".."
. gen str1 s_hispanic_w5 = "."
. gen str1 s_other_w5 = "."
.
.
. replace s_white_w5 = "W"           if white_w5 ==1
(2,844 real changes made)
. replace s_black_w5 = "B"           if black_w5 ==1
(910 real changes made)
. replace s_indian_w5 = "I"           if indian_w5 ==1
(121 real changes made)
. replace s_asian_islander_w5 = "AI"   if asian_islander_w5 ==1
(183 real changes made)
. replace s_hispanic_w5 = "H"         if hispanic_w5 ==1
(406 real changes made)
. replace s_other_w5 = "O"           if other_w5 ==1
(26 real changes made)
.
.
. label variable s_white_w5           "RACE-WHITE-W5, string"
. label variable s_black_w5           "RACE-BLACK/AFRICAN AM-W5, string"
. label variable s_indian_w5           "RACE-AMER INDIAN/NATIVE Amerian-W5, string"
. label variable s_asian_islander_w5  "RACE-ASIAN-ISlander-W5, string"
. label variable s_hispanic_w5        "ARE YOU OF HISPANIC ORIGIN-W5, string"
. label variable s_other_w5           "ARE YOU OF OTHER RACIAL BACKGROUNDS-W5, string"
.
.
. gen race_pattern_w5 = s_white_w5 + "_" + s_black_w5 + "_" + s_indian_w5 + "_" +
s_asian_islander_w5 + "_" + s_hispanic_w5 + "_" + s_other_w5
. label variable race_pattern_w5 "racial backgrounds at W5"
.
. des race_pattern_w5
      storage   display   value
variable name  type      format   label      variable label
-----+-----
race_pattern_w5 str12    %12s                racial backgrounds at W5
. tab1 race_pattern_w5, mis
-> tabulation of race_pattern_w5

```

racial backgrounds at W5	Freq.	Percent	Cum.
.....	14	0.33	0.33
.....O	12	0.29	0.62
.....H	289	6.89	7.51
.....HO	1	0.02	7.53
....AI	130	3.10	10.63
....AIH	5	0.12	10.75
...I	29	0.69	11.44
...IH	8	0.19	11.63
...IHO	1	0.02	11.65
.B	817	19.47	31.12
.BO	5	0.12	31.24
.BH	11	0.26	31.51
.BAI	7	0.17	31.67
.BI	18	0.43	32.10
.BIH	3	0.07	32.17
.BAIHO	1	0.02	32.20
.BAIHO	1	0.02	32.22
W	2,634	62.77	95.00
WO	5	0.12	95.11
WH	75	1.79	96.90
WAI	34	0.81	97.71
WAIH	1	0.02	97.74
WI	40	0.95	98.69
WIO	1	0.02	98.71
WIH	7	0.17	98.88
WB	30	0.71	99.59
WBO	2	0.05	99.64
WBH	3	0.07	99.71
WBAI	9	0.21	99.93
WBAIH	2	0.05	99.98
WBAIHO	1	0.02	100.00
Total	4,196	100.00	

```

.
.
.
*****
* Incorporate the information from the best race category variable
*****

```

```

. tab2 race_pattern_w5 best_category_w5, mis
-> tabulation of race_pattern_w5 by best_category_w5

```

racial backgrounds at W5	SIQ8 RACE-SINGLE CATEGORY IDENTIFY-W5					.	Total
	(1) race-	(2) race-	(3) race-h	(4) race-	(5) race-a		
.....	0	0	0	0	0	14	14
.....O	0	0	0	0	0	12	12
.....H	0	0	7	0	0	282	289
.....HO	0	0	1	0	0	0	1
....AI	0	0	0	10	0	120	130
....AIH	0	0	4	1	0	0	5
...I	0	0	0	0	0	29	29
...IH	0	0	5	0	3	0	8
...IHO	0	0	1	0	0	0	1
.B	0	0	0	0	0	817	817
.BO	0	3	0	0	0	2	5
.BH	0	4	5	0	0	2	11
.BAI	0	7	0	0	0	0	7
.BI	0	13	0	0	3	2	18
.BIH	0	1	0	0	1	1	3
.BAIHO	0	0	0	1	0	0	1
.BAIHO	0	1	0	0	0	0	1

W_._._._._.	0	0	0	0	0	2,634	2,634
W_._._._._O	5	0	0	0	0	0	5
W_._._._.H	40	0	31	0	0	4	75
W_._._.AI_._.	16	0	0	11	0	7	34
W_._._.AI_H_.	1	0	0	0	0	0	1
W_._.I_._._.	35	0	0	0	5	0	40
W_._.I_._._O	1	0	0	0	0	0	1
W_._.I_._.H	3	0	3	0	1	0	7
W_B_._._._.	7	22	0	0	0	1	30
W_B_._._.H	1	1	0	0	0	0	2
W_B_._._.AI_._.	0	1	0	1	0	1	3
W_B_I_._._.	1	8	0	0	0	0	9
W_B_I_._.H	1	1	0	0	0	0	2
W_B_I_AI_._.	0	1	0	0	0	0	1

Total	111	63	57	24	13	3,928	4,196

```

.
.
.
. gen race_w5 =.
(4,196 missing values generated)

. label variable race_w5 "race at w5"

. label define race_w5 1 "(1) white" 2 "(2) black" 3 "(3) indians" 4 "(4) asian/islanders" 5
"(5) hispanic"

. label value race_w5 race_w5

.
.
. *code respondents with only one racial backgrounds
.
. replace race_w5 = 1 if race_pattern_w5 == "W_._._._._."
(2,634 real changes made)

. replace race_w5 = 2 if race_pattern_w5 == "._B_._._._."
(817 real changes made)

. replace race_w5 = 3 if race_pattern_w5 == "._.I_._._."
(29 real changes made)

. replace race_w5 = 4 if race_pattern_w5 == "._._.AI_._."
(130 real changes made)

. replace race_w5 = 5 if race_pattern_w5 == "._._._.H_."
(289 real changes made)

.
.
. *code hispanic background
. replace race_w5 = 5 if race_pattern_w5 == "W_._._._.H_."
(75 real changes made)

. replace race_w5 = 5 if race_pattern_w5 == "W_._._.AI_H_."
(1 real change made)

. replace race_w5 = 5 if race_pattern_w5 == "W_._.I_._.H_."
(7 real changes made)

. replace race_w5 = 5 if race_pattern_w5 == "W_B_._._.H_."
(2 real changes made)

. replace race_w5 = 5 if race_pattern_w5 == "W_B_I_._.H_."
(2 real changes made)

. replace race_w5 = 5 if race_pattern_w5 == "._B_._._.H_."
(11 real changes made)

. replace race_w5 = 5 if race_pattern_w5 == "._B_I_._.H_."

```

```

(3 real changes made)

. replace race_w5 = 5 if race_pattern_w5 == "._B_I_AI_H_."
(1 real change made)

. replace race_w5 = 5 if race_pattern_w5 == "._.I..H_."
(8 real changes made)

. replace race_w5 = 5 if race_pattern_w5 == "._.I..H_O"
(1 real change made)

. replace race_w5 = 5 if race_pattern_w5 == "._..AI_H_."
(5 real changes made)

. replace race_w5 = 5 if race_pattern_w5 == "._..H_O"
(1 real change made)

.
. *code white background
. replace race_w5 = 1 if race_pattern_w5 == "W_.I..._O" & best_category_w5 ==1
(1 real change made)

. replace race_w5 = 1 if race_pattern_w5 == "W_B_I..._" & best_category_w5 ==1
(1 real change made)

. replace race_w5 = 1 if race_pattern_w5 == "W..._O" & best_category_w5 ==1
(5 real changes made)

. replace race_w5 = 1 if race_pattern_w5 == "W_B..._" & best_category_w5 ==1
(7 real changes made)

. replace race_w5 = 1 if race_pattern_w5 == "W...AI..." & best_category_w5 ==1
(16 real changes made)

. replace race_w5 = 1 if race_pattern_w5 == "W_.I..._" & best_category_w5 ==1
(35 real changes made)

.
. *code black background
.
. replace race_w5 = 2 if race_pattern_w5 == "W_B_I_AI..." & best_category_w5 ==2
(1 real change made)

. replace race_w5 = 2 if race_pattern_w5 == "W_B_.AI..." & best_category_w5 ==2
(1 real change made)

. replace race_w5 = 2 if race_pattern_w5 == "._B..._O" & best_category_w5 ==2
(3 real changes made)

. replace race_w5 = 2 if race_pattern_w5 == "._B_.AI..." & best_category_w5 ==2
(7 real changes made)

. replace race_w5 = 2 if race_pattern_w5 == "._B_I..._" & best_category_w5 ==2
(13 real changes made)

. replace race_w5 = 2 if race_pattern_w5 == "W_B_I..._" & best_category_w5 ==2
(8 real changes made)

. replace race_w5 = 2 if race_pattern_w5 == "W_B..._" & best_category_w5 ==2
(22 real changes made)

.
. *code asian/islanders background
.
. replace race_w5 = 4 if race_pattern_w5 == "._B_I_AI..._O" & best_category_w5 ==4
(1 real change made)

. replace race_w5 = 4 if race_pattern_w5 == "W_B_.AI..." & best_category_w5 ==4
(1 real change made)

. replace race_w5 = 4 if race_pattern_w5 == "W...AI..." & best_category_w5 ==4

```

(11 real changes made)

```
.
. *check the variable
. tab2 race_pattern_w5 race_w5, mis
-> tabulation of race_pattern_w5 by race_w5
```

racial backgrounds at W5	race at w5					.	Total
	(1) white	(2) black	(3) india	(4) asian	(5) hispa		
.....	0	0	0	0	0	14	14
.....O	0	0	0	0	0	12	12
.....H	0	0	0	0	289	0	289
.....HO	0	0	0	0	1	0	1
.....AI	0	0	0	130	0	0	130
.....AIH	0	0	0	0	5	0	5
.....I	0	0	29	0	0	0	29
.....IH	0	0	0	0	8	0	8
.....IHO	0	0	0	0	1	0	1
.....B	0	817	0	0	0	0	817
.....BO	0	3	0	0	0	2	5
.....BH	0	0	0	0	11	0	11
.....BAI	0	7	0	0	0	0	7
.....BI	0	13	0	0	0	5	18
.....BIH	0	0	0	0	3	0	3
.....BAIO	0	0	0	1	0	0	1
.....BAIH	0	0	0	0	1	0	1
W.....	2,634	0	0	0	0	0	2,634
W.....O	5	0	0	0	0	0	5
W.....H	0	0	0	0	75	0	75
W.....AI	16	0	0	11	0	7	34
W.....AIH	0	0	0	0	1	0	1
W.....I	35	0	0	0	0	5	40
W.....IO	1	0	0	0	0	0	1
W.....IH	0	0	0	0	7	0	7
W.....B	7	22	0	0	0	1	30
W.....BO	0	0	0	0	2	0	2
W.....BH	0	1	0	1	0	1	3
W.....BAI	1	8	0	0	0	0	9
W.....BAIO	0	0	0	0	2	0	2
W.....BAIH	0	1	0	0	0	0	1
Total	2,699	872	29	143	406	47	4,196

```
.
.
. *****
. * Depressed mood
. *****
.
. * check out the scale items
.
. tabl depressed_w5 sad_w5 blues_w5, mis
```

```
-> tabulation of depressed_w5
```

S10Q0B PAST 7 DAY DEPRESSED-W5	Freq.	Percent	Cum.
(1) never or rarely	2,882	68.68	68.68
(2) sometimes	1,008	24.02	92.71
(3) a lot of the time	187	4.46	97.16
(4) most of the time or all of the time	98	2.34	99.50
.	21	0.50	100.00
Total	4,196	100.00	

```
-> tabulation of sad_w5
```

S10Q0D PAST 7 DAY SAD-W5	Freq.	Percent	Cum.
(1) never or rarely	2,109	50.26	50.26
(2) sometimes	1,786	42.56	92.83
(3) a lot of the time	195	4.65	97.47
(4) most of the time or all of the time	81	1.93	99.40
.	25	0.60	100.00
Total	4,196	100.00	

-> tabulation of blues_w5

S10Q0A PAST 7 DAY SHAKE BLUE-W5	Freq.	Percent	Cum.
(1) never or rarely	3,081	73.43	73.43
(2) sometimes	773	18.42	91.85
(3) a lot of the time	216	5.15	97.00
(4) most of the time or all of the time	107	2.55	99.55
.	19	0.45	100.00
Total	4,196	100.00	

. tabl depressed_w5 sad_w5 blues_w5, mis nol

-> tabulation of depressed_w5

S10Q0B PAST 7 DAY DEPRESSED-W	Freq.	Percent	Cum.
1	2,882	68.68	68.68
2	1,008	24.02	92.71
3	187	4.46	97.16
4	98	2.34	99.50
.	21	0.50	100.00
Total	4,196	100.00	

-> tabulation of sad_w5

S10Q0D PAST 7 DAY SAD-W5	Freq.	Percent	Cum.
1	2,109	50.26	50.26
2	1,786	42.56	92.83
3	195	4.65	97.47
4	81	1.93	99.40
.	25	0.60	100.00
Total	4,196	100.00	

-> tabulation of blues_w5

S10Q0A PAST 7 DAY SHAKE BLUE-W5	Freq.	Percent	Cum.
1	3,081	73.43	73.43
2	773	18.42	91.85
3	216	5.15	97.00
4	107	2.55	99.55
.	19	0.45	100.00
Total	4,196	100.00	

.
. * check the inter-item associations of the depression mood items
.

```
. factor depressed_w5 sad_w5 blues_w5
(obs=4,152)
```

```
Factor analysis/correlation          Number of obs   =    4,152
Method: principal factors           Retained factors =    1
Rotation: (unrotated)              Number of params =    3
```

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	1.85901	1.93141	1.1450	1.1450
Factor2	-0.07239	0.09057	-0.0446	1.1004
Factor3	-0.16297	.	-0.1004	1.0000

```
LR test: independent vs. saturated:  chi2(3) = 5680.33 Prob>chi2 = 0.0000
```

```
Factor loadings (pattern matrix) and unique variances
```

Variable	Factor1	Uniqueness
depressed_w5	0.8494	0.2785
sad_w5	0.7176	0.4851
blues_w5	0.7891	0.3774

```
. alpha depressed_w5 sad_w5 blues_w5
```

```
Test scale = mean(unstandardized items)
```

```
Average interitem covariance:    .3076491
Number of items in the scale:    3
Scale reliability coefficient:    0.8494
```

```
.
```

```
. *three methods of aggregating the scale items
```

```
.
```

```
. * the sum of scale items
```

```
. gen d_score_w5_sum = depressed_w5+sad_w5+blues_w5
(44 missing values generated)
```

```
.
```

```
. * the rowtotal function of scale items
```

```
. egen d_score_w5_egen = rowtotal(depressed_w5 sad_w5 blues_w)
```

```
.
```

```
. * the factor score of the scale items
```

```
. factor depressed_w5 sad_w5 blues_w5
(obs=4,152)
```

```
Factor analysis/correlation          Number of obs   =    4,152
Method: principal factors           Retained factors =    1
Rotation: (unrotated)              Number of params =    3
```

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	1.85901	1.93141	1.1450	1.1450
Factor2	-0.07239	0.09057	-0.0446	1.1004
Factor3	-0.16297	.	-0.1004	1.0000

```
LR test: independent vs. saturated:  chi2(3) = 5680.33 Prob>chi2 = 0.0000
```

```
Factor loadings (pattern matrix) and unique variances
```

Variable	Factor1	Uniqueness
depressed_w5	0.8494	0.2785
sad_w5	0.7176	0.4851

```
blues_w5 | 0.7891 | 0.3774
-----
```

```
. predict d_score_w5_fs
(regression scoring assumed)
```

```
Scoring coefficients (method = regression)
```

```
-----
Variable | Factor1
-----+-----
depressed_w5 | 0.46676
sad_w5 | 0.22960
blues_w5 | 0.31591
-----
```

```
.
. label variable d_score_w5_sum "depression score at W3, sum score"
. label variable d_score_w5_egen "depression score at W3, egen function"
. label variable d_score_w5_fs "depression score at W3, factor score"
```

```
.
. sum d_score_w5_sum d_score_w5_egen d_score_w5_fs
```

```
Variable | Obs Mean Std. Dev. Min Max
-----+-----
d_score_w5~m | 4,152 4.344653 1.802311 3 12
d_score_w5~n | 4,196 4.324118 1.814601 0 12
d_score_w5~s | 4,152 -1.10e-08 .9002726 -.6360619 3.793422
```

```
.
. list aid depressed_w5 sad_w5 blues_w5 d_score_w5_sum d_score_w5_egen d_score_w5_fs if
d_score_w5_sum ==., sepby(aid) nol
```

	aid	depres~5	sad_w5	blues_w5	d_scor~m	d_scor~n	d_scor~s
57.	57213527	1	.	1	.	2	.
63.	57229751	.	.	.	.	0	.
113.	90500914	.	1	1	.	2	.
173.	90571171	.	2	2	.	4	.
209.	90572369	1	.	1	.	2	.
311.	90576758	1	1	.	.	2	.
437.	90713930	.	1	1	.	2	.
499.	91500373	.	2	1	.	3	.
598.	91571876	.	1	1	.	2	.
661.	91575076	.	1	.	.	1	.
709.	91576274	.	.	.	.	0	.
759.	91578315	.	.	.	.	0	.
893.	91716288	2	.	1	.	3	.
921.	91718320	.	.	.	.	0	.
945.	92500219	1	1	.	.	2	.

1294.	92718190	3	3	.	.	6	.
1418.	93572448	.	.	.	.	0	.
1696.	93717463	1	.	1	.	2	.
1697.	93717464	3	.	3	.	6	.
1750.	94507152	1	.	1	.	2	.
1783.	94570833	.	.	4	.	4	.
2198.	95571679	1	.	1	.	2	.
2243.	95573917	2	.	1	.	3	.
2359.	95578106	1	2	.	.	3	.
2360.	95578109	.	2	2	.	4	.
2537.	96500870	1	.	1	.	2	.
2637.	96572324	.	.	.	.	0	.
2728.	96575384	.	.	1	.	1	.
2872.	96710237	.	2	1	.	3	.
2888.	96712349	.	.	.	.	0	.
2889.	96712372	1	1	.	.	2	.
2919.	96715927	1	.	1	.	2	.
2958.	96718269	.	.	.	.	0	.
2998.	97506952	.	1	1	.	2	.
3173.	97576575	4	.	4	.	8	.
3250.	97608170	1	.	1	.	2	.
3303.	97714234	3	4	.	.	7	.
3554.	98576346	3	1	.	.	4	.
3605.	98578465	.	.	.	.	0	.
3996.	99576947	1	2	.	.	3	.
4027.	99578414	.	1	1	.	2	.
4066.	99579993	2	.	4	.	6	.
4114.	99712041	1	1	.	.	2	.
4189.	99718363	1	.	1	.	2	.

```

.
.
. *****
. * generate the indicator variable
. *****
.
. gen in_w5 =1

. label variable in_w5 "respondents of W3"

. label define in_w5 0 " (0) not in W3" 1 "(1) in W5"

```

```
. label value in_w5 in_w5
```

```
. tab1 in_w5, mis
```

```
-> tabulation of in_w5
```

```
respondents of |  
      W3 |      Freq.      Percent      Cum.  
-----+-----  
      (1) in W5 |      4,196      100.00      100.00  
-----+-----  
      Total |      4,196      100.00
```

```
.
```

```
.
```

```
. *****
```

```
. * Save the data
```

```
. *****
```

```
. sort aid
```

```
. save "D:\jason\workshop\Stata workshop\w5.dta", replace  
file D:\jason\workshop\Stata workshop\w5.dta saved
```

```
.
```

```
.
```

```
.
```

```
. *****
```

```
. * Merge data
```

```
. *****
```

```
.
```

```
. use "D:\jason\workshop\Stata workshop\w3.dta"
```

```
(National Longitudinal Study of Adolescent to Adult Health (Add Health), 1994-200)
```

```
. merge 1:1 aid using "D:\jason\workshop\Stata workshop\w4.dta"
```

```
Result # of obs.  
-----+-----  
not matched 1,580  
  from master 674 (_merge==1)  
  from using 906 (_merge==2)  
  
matched 4,208 (_merge==3)  
-----+-----
```

```
. tab1 in_w3 in_w4, mis
```

```
-> tabulation of in_w3
```

```
respondents of |  
      W3 |      Freq.      Percent      Cum.  
-----+-----  
      (1) in W3 |      4,882      84.35      84.35  
      . |      906      15.65      100.00  
-----+-----  
      Total |      5,788      100.00
```

```
-> tabulation of in_w4
```

```
respondents of |  
      W4 |      Freq.      Percent      Cum.  
-----+-----  
      (1) in W4 |      5,114      88.36      88.36  
      . |      674      11.64      100.00  
-----+-----  
      Total |      5,788      100.00
```

```
. drop _merge
```

```
.
```

```
. sort aid
```

```

. count
5,788

.
. merge 1:1 aid using "D:\jason\workshop\Stata workshop\w5.dta"

```

Result	# of obs.	
not matched	1,964	
from master	1,778	(_merge==1)
from using	186	(_merge==2)
matched	4,010	(_merge==3)

```

. drop _merge

.
. tab1 in_w3 in_w4 in_w5, mis

```

-> tabulation of in_w3

respondents of	W3	Freq.	Percent	Cum.
(1) in W3		4,882	81.72	81.72
.		1,092	18.28	100.00
Total		5,974	100.00	

-> tabulation of in_w4

respondents of	W4	Freq.	Percent	Cum.
(1) in W4		5,114	85.60	85.60
.		860	14.40	100.00
Total		5,974	100.00	

-> tabulation of in_w5

respondents of	W5	Freq.	Percent	Cum.
(1) in W5		4,196	70.24	70.24
.		1,778	29.76	100.00
Total		5,974	100.00	

```

. recode in_w3 (.= 0)
(in_w3: 1092 changes made)

. recode in_w4 (.= 0)
(in_w4: 860 changes made)

. recode in_w5 (.= 0)
(in_w5: 1778 changes made)

.
. gen in_all = in_w3*100 + in_w4*10 +in_w5

. label variable in_all "the waves that respondents participated"

.

```

```

. *****
. * Look at the number of survey participants across waves
. *****

```

```
. tab1 in_all, mis
```

```
-> tabulation of in_all
```

```

the waves |
that |
respondents |
participate |
d | Freq. Percent Cum.
-----+-----
1 | 186 3.11 3.11
10 | 340 5.69 8.80
11 | 566 9.47 18.28
100 | 377 6.31 24.59
101 | 297 4.97 29.56
110 | 1,061 17.76 47.32
111 | 3,147 52.68 100.00
-----+-----
Total | 5,974 100.00

```

```

.
.
. *****
. * Select the 3,147 eligible respondents
. *****
.

```

```

. keep if in_all ==111
(2,827 observations deleted)

```

```

. count
3,147

```

```

.
. *****
. * check the size of analytic sample
. *****
.
. sum age_w*_i female_w* race_w* d_score_w*_fs

```

Variable	Obs	Mean	Std. Dev.	Min	Max
age_w3_i	3,147	21.79377	1.802834	18	28
age_w4_i	3,147	28.27137	1.817854	24	33
age_w5_i	3,147	36.77344	1.991037	32	42
female_w3	3,147	.588497	.4921842	0	1
female_w4	3,147	.588497	.4921842	0	1
female_w5	3,147	.588497	.4921842	0	1
race_w3	3,138	1.70204	1.251127	1	5
race_w5	3,115	1.67191	1.219186	1	5
d_score_w3~s	3,139	-.0010432	.8723598	-.5879983	4.0698
d_score_w4~s	3,147	-.0227965	.8491653	-.6410567	3.976017
d_score_w5~s	3,115	.0010735	.9043176	-.6360619	3.793422

```

.
. *****
. * Generate an indicator to select respondents
. *****
.
. *****
. * check the consistency in the gender variable across waves
. *****

```

```

. tab2 female_w3 female_w4, mis

```

```

-> tabulation of female_w3 by female_w4

```

```

respondent | respondent's sex at
's sex at | W4
W3 | (0) male (1) femal | Total
-----+-----+-----
(0) male | 1,295 0 | 1,295
(1) female | 0 1,852 | 1,852
-----+-----+-----
Total | 1,295 1,852 | 3,147

```

```

. tab2 female_w3 female_w5, mis
-> tabulation of female_w3 by female_w5

```

```

respondent | respondent's sex at
's sex at | W5
W3 | (0) male (1) femal | Total
-----+-----+-----
(0) male | 1,295 0 | 1,295
(1) female | 0 1,852 | 1,852
-----+-----+-----
Total | 1,295 1,852 | 3,147

```

```

.
. *****
. * check the consistency in the race variable across waves
. *106 respondents with inconsistent information on race
. *****
.
. tab2 race_w3 race_w5, mis

```

```

-> tabulation of race_w3 by race_w5

```

```

|
| race at w3 | (1) white (2) black (3) india (4) asian (5) hispa . | Total
-----+-----+-----+-----+-----+-----+-----+-----
(1) white | 2,034 3 2 2 5 17 | 2,063
(2) black | 3 633 0 1 4 6 | 647
(3) indians | 1 2 17 1 1 5 | 27
(4) asian/islanders | 3 0 1 94 1 3 | 102
(5) hispanic | 22 9 1 5 262 0 | 299
. | 7 0 0 1 0 1 | 9
-----+-----+-----+-----+-----+-----+-----+-----
Total | 2,070 647 21 104 273 32 | 3,147

```

```

.
. count if race_w3 ~= race_w5
. 106

```

```

.
.
.
. *****
. * check the consistencies of birthdate
. * Many Birthdates at W5 differs from those at Waves 3 and 4
. * Use Birthdates at Wave 3 to calculate ages at each wave
. * If birthdates differ between Waves 3 and 4, use all available information to decide valid
. birth dates
.
. *****
. *****

```

```

. list aid birth_y3 birth_m3 birth_y4 birth_m4 birth_y5 birth_m5 if cm_birth_w3 ~= cm_birth_w4,
. nol

```

```

+-----+-----+-----+-----+-----+-----+-----+
| aid birth_y3 birth_m3 birth_y4 birth_m4 birth_y5 birth_m5 |
+-----+-----+-----+-----+-----+-----+-----+
476. | 91573099 1977 7 1977 6 1976 7 |
1400. | 94574536 1976 12 1975 12 1976 12 |
2957. | 99575329 1975 8 1976 8 1976 8 |
+-----+-----+-----+-----+-----+-----+-----+

```

```
. list aid birth_y3 birth_m3 birth_y4 birth_m4 birth_y5 birth_m5 if cm_birth_w4 ~= cm_birth_w5,
nol
```

	aid	birth_y3	birth_m3	birth_y4	birth_m4	birth_y5	birth_m5
1.	57101310	1976	11	1976	11	1977	11
2.	57111071	1981	6	1981	6	1982	6
4.	57118381	1982	9	1982	9	1983	9
6.	57121404	1979	7	1979	7	1980	7
7.	57121476	1980	10	1980	10	1981	10
9.	57131909	1981	7	1981	7	1982	7
13.	57139880	1981	10	1981	10	1982	10
15.	57141800	1982	7	1982	7	1983	7
16.	57145151	1980	8	1980	8	1981	8
17.	57146734	1982	7	1982	7	1983	7
18.	57154249	1976	11	1976	11	1977	11
19.	57157723	1980	11	1980	11	1981	11
21.	57160648	1978	7	1978	7	1979	7
22.	57166463	1982	10	1982	10	1983	10
24.	57177419	1980	9	1980	9	1981	9
25.	57178110	1981	8	1981	8	1982	8
26.	57178982	1980	11	1980	11	1981	11
27.	57179591	1981	8	1981	8	1982	8
29.	57186582	1978	9	1978	9	1979	9
30.	57191909	1976	11	1976	11	1977	11
31.	57192841	1980	6	1980	6	1981	6
33.	57196641	1978	6	1978	6	1979	6
35.	57200870	1977	7	1977	7	1978	7
36.	57203993	1979	12	1979	12	1980	12
38.	57211375	1980	9	1980	9	1981	9
39.	57212679	1979	12	1979	12	1980	12
41.	57214806	1978	8	1978	8	1979	8
42.	57217613	1981	8	1981	8	1982	8
44.	57220955	1978	12	1978	12	1979	12
45.	57228523	1976	8	1976	8	1977	8
48.	57232895	1977	12	1977	12	1978	12
49.	57233403	1978	6	1978	6	1979	6
50.	57234514	1977	10	1977	10	1978	10
52.	57239363	1979	12	1979	12	1980	12
53.	57239974	1981	7	1981	7	1982	7
58.	57245315	1979	8	1979	8	1980	8
59.	57245379	1978	12	1978	12	1979	12
62.	57251197	1982	7	1982	7	1983	7
63.	57256290	1979	9	1979	9	1980	9
64.	57262270	1981	9	1981	9	1982	9
65.	57263513	1978	12	1978	12	1979	12
67.	57272274	1979	9	1979	9	1980	9
68.	57275298	1980	10	1980	10	1981	10
70.	57277290	1980	6	1980	6	1981	6
72.	88122937	1982	6	1982	6	1983	6
73.	88149345	1980	10	1980	10	1981	10
78.	88251811	1978	9	1978	9	1979	9
80.	90316053	1981	11	1981	11	1982	11
82.	90500059	1977	9	1977	9	1978	9
85.	90500638	1977	8	1977	8	1978	8
86.	90500914	1976	11	1976	11	1977	11
88.	90501955	1978	12	1978	12	1979	12
89.	90503807	1979	8	1979	8	1980	8
90.	90504220	1979	6	1979	6	1980	6
91.	90504248	1976	12	1976	12	1977	12

94.	90506040	1977	7	1977	7	1978	7
95.	90506094	1979	12	1979	12	1980	12
96.	90506203	1977	12	1977	12	1978	12
97.	90506236	1979	10	1979	10	1980	10
99.	90506372	1975	12	1975	12	1976	12
100.	90506428	1978	12	1978	12	1979	12
101.	90506725	1979	9	1979	9	1980	9
106.	90508033	1977	7	1977	7	1978	7
108.	90508577	1979	8	1979	8	1980	8
110.	90543104	1978	8	1978	8	1979	8
111.	90546223	1978	7	1978	7	1976	11
113.	90570184	1977	7	1977	7	1978	7
114.	90570190	1980	7	1980	7	1981	7
115.	90570222	1977	10	1977	10	1978	10
116.	90570280	1976	11	1976	11	1977	11
117.	90570282	1979	6	1979	6	1980	6
119.	90570531	1978	7	1978	7	1979	7
120.	90570582	1977	12	1977	12	1978	12
121.	90570628	1981	7	1981	7	1982	7
123.	90570697	1977	12	1977	12	1978	12
125.	90570778	1979	7	1979	7	1980	7
126.	90570820	1978	10	1978	10	1979	10
127.	90570992	1978	11	1978	11	1979	11
128.	90571004	1980	8	1980	8	1981	8
129.	90571069	1980	7	1980	7	1981	7
130.	90571103	1980	7	1980	7	1981	7
131.	90571107	1981	7	1981	7	1982	7
135.	90571401	1981	12	1981	12	1982	12
136.	90571402	1976	9	1976	9	1977	9
139.	90571805	1981	8	1981	8	1982	8
140.	90571816	1980	12	1980	12	1981	12
141.	90571861	1977	6	1977	6	1978	6
143.	90572007	1979	10	1979	10	1980	10
144.	90572049	1979	6	1979	6	1980	6
145.	90572147	1977	10	1977	10	1978	10
147.	90572192	1978	11	1978	11	1979	11
148.	90572213	1979	8	1979	8	1980	8
149.	90572265	1978	11	1978	11	1979	11
150.	90572268	1981	6	1981	6	1982	6
151.	90572269	1979	9	1979	9	1980	9
152.	90572280	1978	7	1978	7	1979	7
153.	90572282	1977	11	1977	11	1978	11
156.	90572303	1979	11	1979	11	1980	11
157.	90572341	1975	9	1975	9	1976	9
158.	90572393	1976	11	1976	11	1977	11
160.	90572900	1978	12	1978	12	1979	12
162.	90572974	1978	10	1978	10	1979	10
164.	90572991	1978	7	1978	7	1979	7
165.	90573011	1976	12	1976	12	1977	12
166.	90573117	1976	9	1976	9	1977	9
169.	90573491	1978	6	1978	6	1979	6
172.	90573941	1980	10	1980	10	1981	10
174.	90573954	1981	11	1981	11	1982	11
178.	90574133	1978	8	1978	8	1979	8
179.	90574197	1976	8	1976	8	1977	8
180.	90574204	1979	12	1979	12	1980	12
185.	90574489	1980	6	1980	6	1981	6
186.	90574494	1975	2	1975	2	1976	2
188.	90574744	1978	12	1978	12	1979	12

189.	90574805	1979	8	1979	8	1980	8
192.	90574935	1979	7	1979	7	1980	7
193.	90574992	1976	10	1976	10	1977	10
194.	90575111	1980	7	1980	7	1981	7
196.	90575126	1979	11	1979	11	1980	11
197.	90575131	1978	12	1978	12	1979	12
201.	90575229	1979	9	1979	9	1980	9
202.	90575250	1978	7	1978	7	1979	7
205.	90575378	1978	7	1978	7	1979	7
209.	90575919	1978	12	1978	12	1979	12
211.	90575942	1981	11	1981	11	1982	11
212.	90575944	1982	7	1982	7	1983	7
213.	90575946	1980	7	1980	7	1981	7
214.	90575950	1979	12	1979	12	1980	12
215.	90575975	1976	12	1976	12	1977	12
216.	90575982	1978	10	1978	10	1979	10
217.	90575991	1979	6	1979	6	1980	6
218.	90576057	1980	7	1980	7	1981	7
219.	90576117	1977	12	1977	12	1978	12
220.	90576142	1978	7	1978	7	1979	7
221.	90576148	1981	10	1981	10	1982	10
222.	90576248	1980	9	1980	9	1981	9
224.	90576412	1979	10	1979	10	1980	10
225.	90576445	1980	8	1980	8	1981	8
229.	90576758	1977	6	1977	6	1978	6
231.	90576811	1980	7	1980	7	1981	7
233.	90576844	1980	10	1980	10	1981	10
234.	90576919	1978	11	1978	11	1979	11
235.	90576925	1978	10	1978	10	1979	10
237.	90576942	1978	8	1978	8	1979	8
238.	90577063	1978	8	1978	8	1979	8
239.	90577065	1976	9	1976	9	1977	9
240.	90577119	1976	8	1976	8	1977	8
241.	90577161	1978	12	1978	12	1979	12
242.	90577224	1977	12	1977	12	1978	12
243.	90577227	1981	9	1981	9	1982	9
244.	90577229	1976	11	1976	11	1977	11
249.	90577411	1980	6	1980	6	1981	6
250.	90577516	1976	12	1976	12	1977	12
252.	90577782	1977	6	1977	6	1978	6
253.	90577817	1980	6	1980	6	1981	6
254.	90577852	1977	11	1977	11	1978	11
257.	90577929	1981	11	1981	11	1982	11
260.	90578025	1978	9	1978	9	1979	9
261.	90578044	1977	11	1977	11	1978	11
263.	90578105	1976	12	1976	12	1977	12
264.	90578203	1977	9	1977	9	1978	9
265.	90578217	1979	9	1979	9	1980	9
266.	90578288	1975	11	1975	11	1976	11
267.	90578302	1978	11	1978	11	1979	11
268.	90578304	1978	8	1978	8	1979	8
269.	90578380	1976	10	1976	10	1977	10
272.	90578487	1977	11	1977	11	1978	11
273.	90578496	1979	10	1979	10	1980	10
275.	90578620	1980	9	1980	9	1981	9
277.	90578805	1977	8	1977	8	1978	8
278.	90578813	1976	11	1976	11	1977	11
280.	90578873	1978	12	1978	12	1979	12
281.	90578923	1980	9	1980	9	1981	9

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283.	90578981	1975	8	1975	8	1976	8
284.	90578985	1976	8	1976	8	1977	8
285.	90578986	1978	12	1978	12	1979	12
287.	90579233	1976	6	1976	6	1977	6
288.	90579270	1979	7	1979	7	1980	7
290.	90579296	1978	12	1978	12	1979	12
291.	90579944	1977	9	1977	9	1978	9
292.	90579985	1981	9	1981	9	1982	9
293.	90579992	1977	9	1977	9	1978	9
294.	90579993	1977	7	1977	7	1978	7
295.	90606920	1977	7	1977	7	1978	7
298.	90614876	1977	7	1977	7	1978	7
303.	90676053	1978	10	1978	10	1979	10
308.	90678671	1977	10	1977	10	1978	10
309.	90710194	1981	6	1981	6	1982	6
310.	90710297	1981	12	1981	12	1982	12
312.	90710319	1981	11	1981	11	1982	11
313.	90710386	1980	7	1980	7	1981	7
314.	90710874	1980	10	1980	10	1981	10
315.	90710935	1981	9	1981	9	1982	9
316.	90711360	1981	11	1981	11	1982	11
319.	90712216	1982	9	1982	9	1983	9
321.	90712914	1980	9	1980	9	1981	9
323.	90712997	1981	6	1981	6	1982	6
324.	90713391	1981	7	1981	7	1982	7
327.	90713998	1982	9	1982	9	1983	9
328.	90714018	1981	9	1981	9	1982	9
329.	90714022	1980	12	1980	12	1981	12
331.	90714232	1982	7	1982	7	1983	7
333.	90714245	1981	11	1981	11	1982	11
334.	90714328	1981	12	1981	12	1982	12
335.	90715198	1981	7	1981	7	1982	7
336.	90715266	1981	8	1981	8	1982	8
338.	90715353	1980	12	1980	12	1981	12
339.	90715983	1980	11	1980	11	1981	11
340.	90715988	1981	6	1981	6	1982	6
344.	90716951	1981	8	1981	8	1982	8
345.	90716952	1982	7	1982	7	1983	7
346.	90716973	1980	11	1980	11	1981	11
354.	90718081	1981	10	1981	10	1982	10
355.	90718089	1981	10	1981	10	1982	10
357.	90718147	1980	8	1980	8	1981	8
360.	90718268	1980	12	1980	12	1981	12
361.	90718273	1982	7	1982	7	1983	7
362.	90718305	1981	9	1981	9	1982	9
365.	90718394	1979	10	1979	10	1980	10
367.	90718981	1980	11	1980	11	1981	11
369.	90719930	1982	6	1982	6	1983	6
373.	91374975	1982	9	1982	9	1983	9
376.	91500226	1977	7	1977	7	1978	7
377.	91500238	1976	12	1976	12	1977	12
378.	91500373	1980	7	1980	7	1981	7
382.	91504104	1979	9	1979	9	1980	9
387.	91506147	1978	6	1978	6	1979	6
388.	91506304	1977	8	1977	8	1978	8
389.	91506305	1978	9	1978	9	1979	9
390.	91506330	1980	11	1980	11	1981	11
391.	91506392	1978	6	1978	6	1979	6

392.	91506443	1981	6	1981	6	1982	6
394.	91506727	1977	8	1977	8	1978	8
396.	91506946	1977	7	1977	7	1978	7

397.	91506955	1976	12	1976	12	1977	12
398.	91506993	1979	7	1979	7	1980	7
400.	91507116	1978	8	1978	8	1979	8
401.	91507316	1980	10	1980	10	1981	10
406.	91508169	1979	10	1979	10	1980	10

409.	91508766	1979	7	1979	7	1980	7
410.	91508836	1978	6	1978	6	1979	6
412.	91508948	1976	11	1976	11	1977	11
413.	91540058	1979	12	1979	12	1980	12
414.	91540453	1977	9	1977	9	1978	9

415.	91543707	1977	11	1977	11	1977	1
416.	91544201	1979	8	1979	8	1980	8
418.	91570095	1980	9	1980	9	1981	9
419.	91570110	1975	9	1975	9	1976	9
420.	91570210	1979	7	1979	7	1980	7

421.	91570291	1980	7	1980	7	1981	7
423.	91570497	1976	10	1976	10	1977	10
424.	91570524	1977	8	1977	8	1976	7
429.	91570692	1979	11	1979	11	1980	11
430.	91570823	1979	6	1979	6	1980	6

431.	91570829	1976	11	1976	11	1977	11
433.	91570993	1977	12	1977	12	1978	12
435.	91571014	1981	8	1981	8	1982	8
436.	91571116	1980	7	1980	7	1981	7
437.	91571155	1977	12	1977	12	1978	12

438.	91571214	1977	12	1977	12	1978	12
439.	91571218	1978	10	1978	10	1979	10
441.	91571467	1977	6	1977	6	1978	6
442.	91571560	1980	9	1980	9	1981	9
443.	91571601	1980	11	1980	11	1981	11

445.	91571610	1977	10	1977	10	1978	10
447.	91571812	1981	11	1981	11	1982	11
448.	91571817	1978	9	1978	9	1979	9
449.	91571876	1977	10	1977	10	1978	10
450.	91572001	1977	7	1977	7	1978	7

452.	91572063	1980	8	1980	8	1981	8
453.	91572122	1976	10	1976	10	1977	10
457.	91572214	1979	10	1979	10	1980	10
458.	91572221	1977	6	1977	6	1978	6
460.	91572321	1979	7	1979	7	1980	7

461.	91572346	1978	11	1978	11	1979	11
462.	91572369	1978	7	1978	7	1979	7
463.	91572373	1976	9	1976	9	1977	9
464.	91572381	1979	10	1979	10	1980	10
468.	91572442	1978	7	1978	7	1979	7

470.	91572471	1979	11	1979	11	1980	11
471.	91572964	1978	11	1978	11	1979	11
472.	91572981	1977	12	1977	12	1978	12
473.	91572989	1978	11	1978	11	1979	11
476.	91573099	1977	7	1977	6	1976	7

480.	91573291	1978	10	1978	10	1979	10
481.	91573323	1977	12	1977	12	1978	12
482.	91573334	1976	8	1976	8	1977	8
483.	91573414	1979	10	1979	10	1980	10
485.	91573708	1979	6	1979	6	1980	6

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489.	91573958	1977	11	1977	11	1978	11
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491.	91574308	1978	6	1978	6	1979	6
492.	91574337	1979	7	1979	7	1980	7

495.	91574594	1977	8	1977	8	1978	8
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497.	91574688	1978	12	1978	12	1979	12
500.	91575076	1978	8	1978	8	1979	8
501.	91575077	1980	6	1980	6	1981	6

502.	91575083	1974	3	1974	3	1976	3
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512.	91575217	1978	9	1978	9	1979	9
516.	91575358	1978	12	1978	12	1979	12
518.	91575370	1977	10	1977	10	1978	10

520.	91575432	1977	6	1977	6	1978	6
521.	91575477	1978	8	1978	8	1979	8
522.	91575522	1979	9	1979	9	1980	9
524.	91575726	1978	7	1978	7	1979	7
527.	91575940	1979	7	1979	7	1980	7

529.	91575948	1978	11	1978	11	1979	11
530.	91575949	1982	6	1982	6	1983	6
531.	91575992	1978	6	1978	6	1979	6
532.	91576088	1977	6	1977	6	1978	6
534.	91576154	1979	6	1979	6	1980	6

535.	91576163	1978	10	1978	10	1979	10
536.	91576270	1980	8	1980	8	1981	8
537.	91576300	1977	11	1977	11	1978	11
538.	91576363	1977	8	1977	8	1978	8
539.	91576460	1978	10	1978	10	1979	10

541.	91576651	1978	12	1978	12	1979	12
542.	91576674	1977	6	1977	6	1978	6
543.	91576748	1977	10	1977	10	1978	10
545.	91576910	1976	11	1976	11	1977	11
546.	91576919	1975	12	1975	12	1976	12

547.	91576934	1979	6	1979	6	1980	6
548.	91577121	1977	7	1977	7	1978	7
549.	91577126	1979	10	1979	10	1980	10
551.	91577221	1976	10	1976	10	1977	10
557.	91577613	1980	9	1980	9	1981	9

558.	91577786	1978	9	1978	9	1979	9
559.	91577922	1982	6	1982	6	1983	6
560.	91577923	1978	8	1978	8	1979	8
561.	91578026	1977	8	1977	8	1978	8
562.	91578027	1979	6	1979	6	1980	6

563.	91578060	1976	10	1976	10	1977	10
564.	91578089	1978	11	1978	11	1979	11
565.	91578107	1977	10	1977	10	1978	10
566.	91578116	1978	6	1978	6	1979	6
568.	91578197	1980	7	1980	7	1981	7

569.	91578268	1978	12	1978	12	1979	12
573.	91578491	1976	10	1976	10	1977	10
574.	91578526	1977	9	1977	9	1978	9
575.	91578605	1978	7	1978	7	1979	7
576.	91578740	1979	9	1979	9	1980	9

577.	91578747	1976	9	1976	9	1977	9
578.	91578801	1974	7	1974	7	1976	7
581.	91578917	1977	10	1977	10	1978	10
584.	91579242	1977	10	1977	10	1978	10
586.	91579258	1979	6	1979	6	1980	6

587.	91579272	1976	10	1976	10	1977	10
588.	91579296	1976	10	1976	10	1977	10
589.	91579339	1978	9	1978	9	1979	9
590.	91579932	1977	8	1977	8	1977	4
591.	91579936	1976	11	1976	11	1977	11

592.	91579942	1976	8	1976	8	1977	8
594.	91579964	1979	12	1979	12	1980	12
595.	91579967	1977	9	1977	9	1978	9
598.	91579995	1980	8	1980	8	1981	8
599.	91608475	1977	10	1977	10	1978	10

600.	91608476	1978	10	1978	10	1979	10
601.	91614578	1977	8	1977	8	1978	8
602.	91614772	1977	7	1977	7	1978	7
603.	91614978	1979	9	1979	9	1980	9
607.	91619467	1979	7	1979	7	1980	7

609.	91619665	1979	8	1979	8	1980	8
610.	91619862	1980	11	1980	11	1981	11
611.	91646122	1977	11	1977	11	1978	11
612.	91676253	1977	10	1977	10	1978	10
614.	91676522	1978	8	1978	8	1979	8

615.	91676652	1978	6	1978	6	1979	6
618.	91678674	1979	6	1979	6	1980	6
619.	91710018	1981	10	1981	10	1982	10
620.	91710037	1981	7	1981	7	1982	7
621.	91710130	1981	10	1981	10	1982	10

622.	91710252	1980	10	1980	10	1981	10
625.	91710339	1980	9	1980	9	1981	9
626.	91710454	1980	8	1980	8	1981	8
628.	91710915	1981	7	1981	7	1982	7
629.	91710973	1982	8	1982	8	1983	8

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633.	91711167	1982	7	1982	7	1983	7
634.	91711476	1982	12	1982	12	1983	12
635.	91711865	1982	9	1982	9	1983	9
636.	91712211	1981	9	1981	9	1982	9

637.	91712217	1981	6	1981	6	1982	6
638.	91712273	1980	6	1980	6	1981	6
639.	91712314	1982	7	1982	7	1983	7
641.	91712372	1982	8	1982	8	1983	8
642.	91712842	1980	9	1980	9	1981	9

643.	91712905	1980	6	1980	6	1981	6
644.	91712908	1981	7	1981	7	1982	7
646.	91712918	1981	6	1981	6	1982	6
648.	91713031	1981	7	1981	7	1982	7
651.	91714043	1981	12	1981	12	1982	12

653.	91714099	1980	8	1980	8	1981	8
659.	91714338	1981	8	1981	8	1982	8
660.	91714938	1980	6	1980	6	1981	6
662.	91715124	1981	10	1981	10	1982	10
663.	91715280	1981	9	1981	9	1982	9

664.	91715892	1981	9	1981	9	1982	9
665.	91715920	1982	9	1982	9	1983	9
666.	91715921	1981	10	1981	10	1982	10
667.	91715927	1980	9	1980	9	1981	9
669.	91715958	1980	10	1980	10	1981	10

670.	91715983	1981	9	1981	9	1982	9
672.	91715991	1982	10	1982	10	1983	10
675.	91716116	1980	9	1980	9	1981	9
676.	91716136	1981	6	1981	6	1982	6
678.	91716161	1980	12	1980	12	1981	12

679.	91716275	1982	8	1982	8	1983	8
680.	91716281	1980	12	1980	12	1981	12
682.	91716321	1980	9	1980	9	1981	9
683.	91716890	1981	6	1981	6	1982	6
684.	91716902	1981	10	1981	10	1982	10
686.	91716908	1982	6	1982	6	1983	6
687.	91716952	1982	7	1982	7	1983	7
688.	91717169	1981	6	1981	6	1982	6
689.	91717853	1981	10	1981	10	1982	10
691.	91717910	1981	8	1981	8	1982	8
692.	91717918	1980	10	1980	10	1981	10
697.	91718174	1981	7	1981	7	1982	7
698.	91718287	1981	11	1981	11	1982	11
700.	91718302	1982	8	1982	8	1982	4
701.	91718320	1982	7	1982	7	1983	7
702.	91718379	1982	8	1982	8	1983	8
704.	91718916	1981	11	1981	11	1982	11
705.	91718949	1981	11	1981	11	1982	11
706.	91718960	1977	12	1977	12	1978	12
707.	91718969	1979	6	1979	6	1980	6
708.	91719273	1981	6	1981	6	1982	6
710.	91719930	1982	10	1982	10	1983	10
713.	92316359	1980	8	1980	8	1981	8
714.	92374975	1981	11	1981	11	1982	11
716.	92500081	1978	8	1978	8	1979	8
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720.	92500618	1977	12	1977	12	1978	12
721.	92500914	1979	7	1979	7	1980	7
723.	92504085	1978	7	1978	7	1979	7
724.	92504100	1981	8	1981	8	1982	8
725.	92504229	1979	7	1979	7	1980	7
726.	92504284	1979	12	1979	12	1980	12
729.	92504722	1977	12	1977	12	1978	12
730.	92504827	1977	12	1977	12	1978	12
732.	92506942	1977	9	1977	9	1978	9
734.	92506966	1978	6	1978	6	1979	6
736.	92507858	1976	12	1976	12	1977	12
737.	92507952	1980	7	1980	7	1981	7
738.	92507983	1977	7	1977	7	1978	7
739.	92508223	1977	7	1977	7	1978	7
740.	92508625	1978	12	1978	12	1979	12
742.	92508934	1977	7	1977	7	1978	7
743.	92540351	1976	9	1976	9	1977	9
745.	92546073	1978	8	1978	8	1979	8
747.	92570084	1977	11	1977	11	1978	11
749.	92570396	1976	12	1976	12	1977	12
750.	92570676	1979	12	1979	12	1980	12
752.	92570698	1977	9	1977	9	1978	9
753.	92570975	1976	9	1976	9	1977	9
755.	92571017	1978	11	1978	11	1979	11
756.	92571019	1977	9	1977	9	1978	9
760.	92571664	1979	10	1979	10	1980	10
761.	92571801	1981	7	1981	7	1982	7
762.	92572061	1977	11	1977	11	1978	11
763.	92572101	1976	12	1976	12	1977	12
765.	92572119	1978	6	1978	6	1979	6
766.	92572168	1980	9	1980	9	1981	9
770.	92572226	1978	6	1978	6	1979	6
772.	92572283	1977	12	1977	12	1978	12

773.	92572290	1979	7	1979	7	1980	7
775.	92572300	1978	11	1978	11	1979	11
778.	92572345	1978	10	1978	10	1979	10
779.	92572348	1976	11	1976	11	1977	11
780.	92572383	1977	10	1977	10	1978	10
782.	92572665	1980	9	1980	9	1981	9
783.	92572669	1979	12	1979	12	1980	12
786.	92572919	1979	10	1979	10	1980	10
787.	92572983	1982	6	1982	6	1983	6
789.	92573010	1981	6	1981	6	1982	6
793.	92573690	1977	5	1977	5	1976	7
794.	92573691	1976	12	1976	12	1977	12
795.	92573697	1979	8	1979	8	1980	8
798.	92573916	1979	10	1979	10	1980	10
799.	92573917	1980	8	1980	8	1981	8
801.	92573958	1979	6	1979	6	1980	6
803.	92574200	1980	12	1980	12	1981	12
804.	92574302	1979	12	1979	12	1980	12
806.	92574614	1979	11	1979	11	1980	11
808.	92574739	1979	9	1979	9	1980	9
809.	92574808	1978	7	1978	7	1979	7
810.	92574810	1980	8	1980	8	1981	8
811.	92575023	1977	11	1977	11	1978	11
812.	92575033	1978	11	1978	11	1979	11
813.	92575180	1980	7	1980	7	1981	7
814.	92575201	1978	8	1978	8	1979	8
815.	92575213	1976	12	1976	12	1977	12
816.	92575217	1976	12	1976	12	1977	12
820.	92575263	1977	9	1977	9	1978	9
821.	92575292	1977	9	1977	9	1978	9
824.	92575326	1977	7	1977	7	1978	7
826.	92575400	1979	11	1979	11	1980	11
827.	92575421	1979	12	1979	12	1980	12
829.	92575771	1977	9	1977	9	1978	9
831.	92575935	1977	10	1977	10	1978	10
832.	92575951	1975	8	1975	8	1976	8
833.	92575959	1978	12	1978	12	1979	12
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1448.	94576685	1978	9	1978	9	1979	9
1449.	94576706	1977	7	1977	7	1978	7
1452.	94576985	1979	10	1979	10	1980	10
1454.	94577084	1977	8	1977	8	1978	8
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1478.	94578881	1975	11	1975	11	1976	11
1479.	94578890	1976	12	1976	12	1977	12
1481.	94578910	1975	12	1975	12	1976	12
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1493.	94579962	1982	7	1982	7	1983	7

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1503.	94619262	1981	9	1981	9	1982	9

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1520.	94710871	1981	12	1981	12	1982	12
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1523.	94710989	1979	12	1979	12	1980	12

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1538.	94714085	1980	6	1980	6	1981	6
1539.	94714088	1981	10	1981	10	1982	10

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1543.	94714394	1981	10	1981	10	1982	10
1544.	94714398	1982	6	1982	6	1983	6
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1557.	94716265	1981	11	1981	11	1982	11
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1568.	94718194	1981	6	1981	6	1982	6
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1613.	95508323	1977	6	1977	6	1978	6
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1619.	95544985	1977	12	1977	12	1978	12
1625.	95570299	1976	12	1976	12	1977	12

1626.	95570353	1976	9	1976	9	1977	9
1627.	95570376	1977	10	1977	10	1978	10
1628.	95570588	1978	6	1978	6	1979	6
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1634.	95571319	1979	6	1979	6	1980	6
1635.	95571657	1978	9	1978	9	1979	9
1638.	95571913	1979	10	1979	10	1980	10
1639.	95572073	1979	8	1979	8	1980	8

1643.	95572115	1979	9	1979	9	1980	9
1644.	95572291	1978	7	1978	7	1979	7
1645.	95572306	1979	11	1979	11	1980	11
1646.	95572318	1979	10	1979	10	1980	10
1647.	95572376	1980	8	1980	8	1981	8

1648.	95572386	1977	7	1977	7	1978	7
1650.	95572405	1978	6	1978	6	1979	6
1656.	95572917	1977	7	1977	7	1978	7
1658.	95572925	1977	11	1977	11	1978	11
1660.	95572985	1978	8	1978	8	1979	8

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1663.	95573230	1978	9	1978	9	1979	9
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1679.	95574333	1977	10	1977	10	1978	10
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1681.	95574415	1978	10	1978	10	1979	10
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1689.	95574745	1975	4	1975	4	1976	4
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1691.	95574937	1977	6	1977	6	1978	6

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1914.	96506790	1979	6	1979	6	1980	6
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1922.	96544206	1981	7	1981	7	1982	7
1923.	96544208	1976	8	1976	8	1977	8
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1930.	96570213	1979	10	1979	10	1980	10
1931.	96570285	1976	1	1976	1	1977	1
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1949.	96571675	1979	3	1979	3	1981	3
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1953.	96572003	1977	10	1977	10	1978	10
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1963.	96572289	1980	9	1980	9	1981	9
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1968.	96572386	1981	8	1981	8	1982	8
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2668.	98576509	1978	8	1978	8	1979	8
2669.	98576596	1979	11	1979	11	1980	11
2671.	98576688	1979	9	1979	9	1980	9
2674.	98576964	1977	8	1977	8	1978	8
2675.	98577114	1978	6	1978	6	1979	6
2676.	98577151	1976	11	1976	11	1977	11
2677.	98577161	1977	11	1977	11	1978	11
2678.	98577165	1976	12	1976	12	1977	12
2679.	98577169	1979	8	1979	8	1980	8
2681.	98577226	1976	12	1976	12	1977	12
2682.	98577259	1976	7	1976	7	1977	7
2683.	98577324	1978	10	1978	10	1979	10
2685.	98577924	1980	10	1980	10	1981	10
2686.	98577925	1977	9	1977	9	1978	9
2687.	98578043	1977	10	1977	10	1978	10
2689.	98578101	1975	4	1975	4	1976	4
2690.	98578207	1980	10	1980	10	1981	10
2691.	98578267	1980	11	1980	11	1981	11

2692.	98578291	1978	8	1978	8	1979	8
2694.	98578316	1977	6	1977	6	1978	6
2695.	98578330	1978	9	1978	9	1979	9
2699.	98578381	1975	8	1975	8	1976	8
2700.	98578432	1978	10	1978	10	1979	10
2701.	98578438	1980	7	1980	7	1981	7
2704.	98578723	1980	9	1980	9	1981	9
2706.	98578767	1978	7	1978	7	1979	7
2707.	98578782	1979	10	1979	10	1980	10
2708.	98578980	1978	8	1978	8	1979	8
2709.	98579373	1977	6	1977	6	1978	6
2713.	98579939	1979	6	1979	6	1980	6
2714.	98579954	1981	8	1981	8	1982	8
2715.	98579963	1977	9	1977	9	1978	9
2718.	98579991	1977	7	1977	7	1978	7
2720.	98606428	1977	6	1977	6	1978	6
2721.	98606929	1979	8	1979	8	1980	8
2722.	98608876	1978	6	1978	6	1979	6
2724.	98619068	1978	9	1978	9	1979	9
2727.	98619967	1977	9	1977	9	1978	9
2728.	98636350	1978	8	1978	8	1979	8
2729.	98646329	1980	6	1980	6	1981	6
2730.	98676254	1978	7	1978	7	1979	7
2734.	98710156	1981	11	1981	11	1982	11
2736.	98710286	1982	7	1982	7	1983	7
2737.	98710291	1980	9	1980	9	1981	9
2738.	98710292	1980	7	1980	7	1981	7
2742.	98710913	1980	10	1980	10	1981	10
2744.	98710977	1981	6	1981	6	1982	6
2746.	98711165	1981	7	1981	7	1982	7
2749.	98712247	1980	12	1980	12	1981	12
2750.	98712941	1982	7	1982	7	1983	7
2751.	98712942	1980	10	1980	10	1981	10
2752.	98712976	1981	7	1981	7	1982	7
2755.	98713806	1981	11	1981	11	1982	11
2756.	98714025	1982	7	1982	7	1983	7
2757.	98714084	1980	10	1980	10	1981	10
2760.	98714242	1980	10	1980	10	1981	10
2761.	98714282	1981	11	1981	11	1982	11
2763.	98714325	1982	6	1982	6	1983	6
2764.	98714380	1979	10	1979	10	1980	10
2765.	98714481	1981	8	1981	8	1982	8
2766.	98714928	1981	11	1981	11	1982	11
2768.	98715023	1982	10	1982	10	1983	10
2769.	98715250	1981	11	1981	11	1982	11
2770.	98715263	1981	12	1981	12	1982	12
2772.	98715986	1980	6	1980	6	1981	6
2774.	98716054	1980	7	1980	7	1981	7
2775.	98716066	1982	8	1982	8	1983	8
2776.	98716167	1981	7	1981	7	1982	7
2777.	98716229	1981	10	1981	10	1982	10
2778.	98716251	1982	8	1982	8	1983	8
2780.	98716827	1982	10	1982	10	1983	10
2781.	98716897	1980	8	1980	8	1981	8
2783.	98716978	1981	10	1981	10	1982	10
2785.	98717163	1981	8	1981	8	1982	8
2786.	98717263	1981	7	1981	7	1982	7
2787.	98718112	1982	7	1982	7	1983	7
2788.	98718119	1982	8	1982	8	1983	8

2789.	|	98718174	1981	7	1981	7	1982	7	|
2790.	|	98718202	1981	9	1981	9	1982	9	|
2792.	|	98718293	1982	8	1982	8	1983	8	|

2793.	|	98718821	1981	11	1981	11	1982	11	|
2794.	|	98718910	1982	6	1982	6	1983	6	|
2795.	|	98718974	1981	11	1981	11	1982	11	|
2796.	|	98718987	1980	11	1980	11	1981	11	|
2799.	|	98719277	1979	6	1979	6	1980	6	|

2800.	|	98719932	1982	10	1982	10	1983	10	|
2802.	|	99316152	1979	12	1979	12	1980	12	|
2806.	|	99500087	1977	7	1977	7	1978	7	|
2809.	|	99500238	1979	6	1979	6	1980	6	|
2810.	|	99500276	1977	8	1977	8	1978	8	|

2811.	|	99500417	1976	12	1976	12	1977	12	|
2817.	|	99504144	1978	12	1978	12	1979	12	|
2819.	|	99504222	1979	12	1979	12	1980	12	|
2823.	|	99504849	1977	9	1977	9	1978	9	|
2825.	|	99506026	1976	9	1976	9	1977	9	|

2827.	|	99506342	1977	6	1977	6	1978	6	|
2829.	|	99506495	1977	7	1977	7	1978	7	|
2831.	|	99506981	1979	6	1979	6	1980	6	|
2833.	|	99507351	1979	6	1979	6	1980	6	|
2834.	|	99507853	1978	7	1978	7	1979	7	|

2835.	|	99507857	1976	11	1976	11	1977	11	|
2836.	|	99507859	1978	12	1978	12	1979	12	|
2838.	|	99508077	1978	12	1978	12	1979	12	|
2839.	|	99508120	1980	8	1980	8	1981	8	|
2840.	|	99508327	1976	12	1976	12	1977	12	|

2841.	|	99508537	1978	6	1978	6	1979	6	|
2843.	|	99508928	1977	11	1977	11	1978	11	|
2845.	|	99543509	1976	10	1976	10	1977	10	|
2849.	|	99544902	1980	6	1980	6	1981	6	|
2852.	|	99570192	1977	6	1977	6	1978	6	|

2853.	|	99570327	1977	7	1977	7	1978	7	|
2854.	|	99570393	1979	12	1979	12	1980	12	|
2856.	|	99570679	1978	8	1978	8	1979	8	|
2858.	|	99570695	1977	7	1977	7	1978	7	|
2859.	|	99570879	1979	8	1979	8	1980	8	|

2865.	|	99571202	1980	8	1980	8	1981	8	|
2867.	|	99571216	1976	10	1976	10	1977	10	|
2870.	|	99571316	1981	12	1981	12	1982	12	|
2871.	|	99571353	1976	11	1976	11	1977	11	|
2872.	|	99571369	1980	11	1980	11	1981	11	|

2873.	|	99571375	1977	10	1977	10	1978	10	|
2874.	|	99571419	1979	7	1979	7	1980	7	|
2877.	|	99571664	1979	8	1979	8	1980	8	|
2878.	|	99571818	1980	9	1980	9	1981	9	|
2879.	|	99571950	1977	9	1977	9	1978	9	|

2880.	|	99572110	1980	9	1980	9	1981	9	|
2883.	|	99572263	1981	10	1981	10	1982	10	|
2885.	|	99572288	1979	12	1979	12	1980	12	|
2886.	|	99572317	1979	9	1979	9	1980	9	|
2887.	|	99572326	1979	12	1979	12	1980	12	|

2888.	|	99572383	1980	11	1980	11	1981	11	|
2889.	|	99572384	1978	9	1978	9	1979	9	|
2891.	|	99572465	1980	6	1980	6	1981	6	|
2892.	|	99572467	1978	9	1978	9	1979	9	|
2893.	|	99572643	1977	7	1977	7	1978	7	|

2894.	|	99572875	1980	9	1980	9	1981	9	|

2895.	99572924	1979	7	1979	7	1980	7
2896.	99572925	1976	11	1976	11	1977	11
2897.	99572944	1977	10	1977	10	1978	10
2898.	99572962	1978	10	1978	10	1979	10

2900.	99573014	1981	6	1981	6	1982	6
2901.	99573038	1977	6	1977	6	1978	6
2902.	99573216	1977	9	1977	9	1978	9
2903.	99573251	1977	10	1977	10	1978	10
2906.	99573314	1978	7	1978	7	1979	7

2908.	99573394	1979	7	1979	7	1980	7
2909.	99573433	1978	10	1978	10	1979	10
2910.	99573637	1977	6	1977	6	1978	6
2911.	99573691	1979	8	1979	8	1980	8
2912.	99573898	1979	7	1979	7	1980	7

2913.	99573944	1977	7	1977	7	1978	7
2915.	99573952	1979	11	1979	11	1980	11
2916.	99573953	1979	10	1979	10	1980	10
2917.	99573955	1979	6	1979	6	1980	6
2918.	99573958	1979	6	1979	6	1980	6

2921.	99573998	1977	9	1977	9	1978	9
2922.	99573999	1979	10	1979	10	1980	10
2924.	99574137	1978	9	1978	9	1979	9
2925.	99574211	1977	10	1977	10	1978	10
2927.	99574415	1979	12	1979	12	1980	12

2928.	99574499	1976	12	1976	12	1977	12
2929.	99574615	1978	8	1978	8	1979	8
2930.	99574686	1979	10	1979	10	1980	10
2931.	99574729	1979	11	1979	11	1980	11
2933.	99574808	1979	11	1979	11	1980	11

2934.	99574899	1980	12	1980	12	1981	12
2935.	99574912	1978	7	1978	7	1979	7
2936.	99575018	1979	8	1979	8	1980	8
2939.	99575118	1977	7	1977	7	1978	7
2940.	99575131	1979	10	1979	10	1980	10

2944.	99575157	1979	9	1979	9	1980	9
2945.	99575179	1976	12	1976	12	1977	12
2946.	99575185	1979	6	1979	6	1980	6
2948.	99575216	1978	11	1978	11	1979	11
2951.	99575245	1979	11	1979	11	1980	11

2954.	99575260	1979	8	1979	8	1980	8
2955.	99575291	1978	10	1978	10	1979	10
2956.	99575305	1980	12	1980	12	1981	12
2959.	99575381	1977	7	1977	7	1978	7
2960.	99575400	1982	12	1982	12	1983	12

2961.	99575529	1979	7	1979	7	1980	7
2962.	99575621	1979	6	1979	6	1980	6
2963.	99575626	1979	10	1979	10	1980	10
2964.	99575871	1979	11	1979	11	1980	11
2965.	99575879	1979	10	1979	10	1980	10

2966.	99575909	1977	12	1977	12	1978	12
2967.	99575940	1981	9	1981	9	1982	9
2969.	99575946	1978	10	1978	10	1979	10
2972.	99576011	1978	6	1978	6	1979	6
2973.	99576055	1976	12	1976	12	1977	12

2974.	99576206	1980	8	1980	8	1981	8
2976.	99576347	1978	7	1978	7	1979	7
2977.	99576456	1977	8	1977	8	1978	8
2978.	99576466	1979	11	1979	11	1980	11
2980.	99576589	1976	10	1976	10	1977	10

2981.	|	99576705	1978	6	1978	6	1979	6	|
2984.	|	99576938	1977	12	1977	12	1978	12	|
2985.	|	99576944	1981	7	1981	7	1982	7	|
2986.	|	99576947	1977	7	1977	7	1978	7	|
2988.	|	99577050	1977	11	1977	11	1978	11	|

2990.	|	99577228	1977	9	1977	9	1978	9	|
2994.	|	99577517	1978	12	1978	12	1979	12	|
2998.	|	99577923	1976	8	1976	8	1977	8	|
2999.	|	99577928	1979	7	1979	7	1980	7	|
3000.	|	99577988	1979	8	1979	8	1980	8	|

3002.	|	99578031	1977	7	1977	7	1978	7	|
3003.	|	99578109	1980	8	1980	8	1981	8	|
3005.	|	99578226	1980	7	1980	7	1981	7	|
3006.	|	99578289	1976	10	1976	10	1977	10	|
3007.	|	99578312	1979	10	1979	10	1980	10	|

3008.	|	99578414	1979	11	1979	11	1980	11	|
3009.	|	99578516	1978	6	1978	6	1979	6	|
3010.	|	99578522	1977	8	1977	8	1978	8	|
3011.	|	99578529	1977	8	1977	8	1978	8	|
3012.	|	99578591	1978	7	1978	7	1979	7	|

3014.	|	99578729	1980	7	1980	7	1981	7	|
3018.	|	99579238	1978	12	1978	12	1979	12	|
3020.	|	99579241	1978	9	1978	9	1979	9	|
3021.	|	99579243	1980	7	1980	7	1981	7	|
3023.	|	99579264	1977	9	1977	9	1978	9	|

3026.	|	99579291	1977	6	1977	6	1978	6	|
3028.	|	99579933	1980	7	1980	7	1981	7	|
3035.	|	99579988	1981	6	1981	6	1982	6	|
3036.	|	99579995	1977	10	1977	10	1978	10	|
3037.	|	99579997	1976	7	1976	7	1977	7	|

3041.	|	99608179	1979	7	1979	7	1980	7	|
3042.	|	99608876	1978	11	1978	11	1979	11	|
3043.	|	99614075	1979	6	1979	6	1980	6	|
3044.	|	99614278	1978	9	1978	9	1979	9	|
3045.	|	99614475	1977	12	1977	12	1978	12	|

3048.	|	99619460	1977	11	1977	11	1978	11	|
3050.	|	99619860	1981	10	1981	10	1982	10	|
3051.	|	99619966	1980	12	1980	12	1981	12	|
3052.	|	99636350	1980	9	1980	9	1981	9	|
3053.	|	99646121	1980	10	1980	10	1981	10	|

3054.	|	99676126	1980	9	1980	9	1981	9	|
3055.	|	99676357	1979	12	1979	12	1980	12	|
3057.	|	99676658	1977	10	1977	10	1978	10	|
3058.	|	99676853	1979	7	1979	7	1980	7	|
3060.	|	99678677	1979	9	1979	9	1980	9	|

3061.	|	99710010	1981	12	1981	12	1982	12	|
3062.	|	99710038	1981	7	1981	7	1982	7	|
3065.	|	99710096	1980	10	1980	10	1981	10	|
3066.	|	99710181	1981	10	1981	10	1982	10	|
3069.	|	99710315	1981	9	1981	9	1982	9	|

3070.	|	99710319	1980	11	1980	11	1981	11	|
3072.	|	99710774	1981	7	1981	7	1982	7	|
3074.	|	99711172	1981	6	1981	6	1982	6	|
3078.	|	99712172	1981	11	1981	11	1982	11	|
3079.	|	99712176	1981	7	1981	7	1982	7	|

3080.	|	99712217	1981	7	1981	7	1982	7	|
3081.	|	99712240	1981	10	1981	10	1982	10	|
3085.	|	99712902	1980	12	1980	12	1981	12	|
3088.	|	99713134	1981	7	1981	7	1982	7	|
3092.	|	99713501	1980	11	1980	11	1981	11	|

3093.	|	99713934	|	1981	|	10	|	1981	|	10	|	1982	|	10	|
3094.	|	99713999	|	1980	|	12	|	1980	|	12	|	1981	|	12	|
3095.	|	99714126	|	1980	|	10	|	1980	|	10	|	1981	|	10	|
3096.	|	99714346	|	1981	|	12	|	1981	|	12	|	1982	|	12	|
3098.	|	99714938	|	1981	|	12	|	1981	|	12	|	1982	|	12	|

3099.	|	99714942	|	1980	|	12	|	1980	|	12	|	1981	|	12	|
3100.	|	99715029	|	1981	|	8	|	1981	|	8	|	1982	|	8	|
3101.	|	99715095	|	1981	|	7	|	1981	|	7	|	1982	|	7	|
3102.	|	99715251	|	1980	|	9	|	1980	|	9	|	1981	|	9	|
3103.	|	99715258	|	1982	|	6	|	1982	|	6	|	1983	|	6	|

3106.	|	99715358	|	1979	|	6	|	1979	|	6	|	1980	|	6	|
3108.	|	99715823	|	1981	|	8	|	1981	|	8	|	1982	|	8	|
3109.	|	99715933	|	1980	|	12	|	1980	|	12	|	1981	|	12	|
3110.	|	99715934	|	1981	|	12	|	1981	|	12	|	1982	|	12	|
3111.	|	99715939	|	1981	|	6	|	1981	|	6	|	1982	|	6	|

3115.	|	99716258	|	1981	|	8	|	1981	|	8	|	1982	|	8	|
3117.	|	99716369	|	1981	|	12	|	1981	|	12	|	1982	|	12	|
3118.	|	99716396	|	1980	|	7	|	1980	|	7	|	1981	|	7	|
3121.	|	99716903	|	1981	|	7	|	1981	|	7	|	1982	|	7	|
3122.	|	99716905	|	1982	|	9	|	1982	|	9	|	1983	|	9	|

3124.	|	99716958	|	1981	|	8	|	1981	|	8	|	1982	|	8	|
3125.	|	99716971	|	1982	|	9	|	1982	|	9	|	1983	|	9	|
3127.	|	99717366	|	1980	|	6	|	1980	|	6	|	1981	|	6	|
3129.	|	99717911	|	1980	|	9	|	1980	|	9	|	1981	|	9	|
3130.	|	99717915	|	1980	|	11	|	1980	|	11	|	1981	|	11	|

3131.	|	99717917	|	1980	|	10	|	1980	|	10	|	1981	|	10	|
3132.	|	99717919	|	1981	|	9	|	1981	|	9	|	1982	|	9	|
3133.	|	99718007	|	1981	|	7	|	1981	|	7	|	1982	|	7	|
3134.	|	99718088	|	1981	|	9	|	1981	|	9	|	1982	|	9	|
3135.	|	99718104	|	1981	|	11	|	1981	|	11	|	1982	|	11	|

3138.	|	99718207	|	1982	|	11	|	1982	|	11	|	1983	|	11	|
3143.	|	99718845	|	1981	|	11	|	1981	|	11	|	1982	|	11	|
3146.	|	99719939	|	1981	|	6	|	1981	|	6	|	1982	|	6	|
3147.	|	99719976	|	1980	|	12	|	1980	|	12	|	1981	|	12	|

```

.
.
.
. gen birth_y =.
(3,147 missing values generated)

. gen birth_m =.
(3,147 missing values generated)

. label variable birth_y "birth year, corrected"

. label variable birth_m "birth month, corrected"

.
. count if cm_birth_w3 == cm_birth_w4
3,144

.
. replace birth_y = birth_y3 if cm_birth_w3 == cm_birth_w4
(3,144 real changes made)

. replace birth_m = birth_m3 if cm_birth_w3 == cm_birth_w4
(3,144 real changes made)

.
.
. list aid birth_y3 birth_m3 birth_y4 birth_m4 birth_y5 birth_m5 if cm_birth_w3 ~= cm_birth_w4,
nol

```

	aid	birth_y3	birth_m3	birth_y4	birth_m4	birth_y5	birth_m5
476.	91573099	1977	7	1977	6	1976	7
1400.	94574536	1976	12	1975	12	1976	12
2957.	99575329	1975	8	1976	8	1976	8

```

.
.
. replace birth_y = . if aid == "91573099"
(0 real changes made)

. replace birth_m = . if aid == "91573099"
(0 real changes made)

.
. replace birth_y = birth_y3 if aid == "94574536"
(1 real change made)

. replace birth_m = birth_m3 if aid == "94574536"
(1 real change made)

.
. replace birth_y = birth_y4 if aid == "99575329"
(1 real change made)

. replace birth_m = birth_m4 if aid == "99575329"
(1 real change made)

.
.
. sum birth_y birth_m

Variable |      Obs      Mean   Std. Dev.   Min      Max
-----+-----+-----+-----+-----+-----
birth_y |    3,146   1979.108   1.778557   1974   1983
birth_m |    3,146    6.521615   3.417389     1     12

.
.
. gen ncm_birth = (birth_y -1900)*12 + birth_m
(1 missing value generated)

. label variable ncm_birth "birth date, century month, corrected"

.
.
. gen nage_w3_c = (cm_interview_w3-ncm_birth)/12
(1 missing value generated)

. gen nage_w3_i = floor((cm_interview_w3-ncm_birth)/12)
(1 missing value generated)

.
. gen nage_w4_c = (cm_interview_w4-ncm_birth)/12
(1 missing value generated)

. gen nage_w4_i = floor((cm_interview_w4-ncm_birth)/12)
(1 missing value generated)

.
. gen nage_w5_c = (cm_interview_w5-ncm_birth)/12
(1 missing value generated)

. gen nage_w5_i = floor((cm_interview_w5-ncm_birth)/12)
(1 missing value generated)

.
.

```

```

. label variable nage_w3_c "new age variable at W3, continuous)
. label variable nage_w3_i "new age variable at W3, integer)
. label variable nage_w4_c "new age variable at W4, continuous)
. label variable nage_w4_i "new age variable at W4, integer)
. label variable nage_w5_c "new age variable at W5, continuous)
. label variable nage_w5_i "new age variable at W5, integer)

```

```

. list aid Interview_y3 Interview_m3 cm_interview_w3 birth_y birth_m ncm_birth nage_w3_c nage_w3_i if
cm_birth_w3 ~= cm_birth_w4, nol

```

	aid	Inter~y3	Inter~m3	cm_int~3	birth_y	birth_m	ncm_bi~h	nage~3_c	nage~3_i
476.	91573099	2002	4	1228	.	.	.	.	.
1400.	94574536	2002	3	1227	1976	12	924	25.25	25
2957.	99575329	2001	11	1223	1976	8	920	25.25	25

```

. list aid Interview_y4 Interview_m4 cm_interview_w4 birth_y birth_m ncm_birth nage_w4_c nage_w4_i if
cm_birth_w3 ~= cm_birth_w4, nol

```

	aid	Inter~y4	Inter~m4	cm_int~4	birth_y	birth_m	ncm_bi~h	nage~4_c	nage~4_i
476.	91573099	2008	4	1300	.	.	.	.	.
1400.	94574536	2008	9	1305	1976	12	924	31.75	31
2957.	99575329	2008	5	1301	1976	8	920	31.75	31

```

. list aid Interview_y5 Interview_m5 cm_interview_w5 birth_y birth_m ncm_birth nage_w5_c nage_w5_i if
cm_birth_w3 ~= cm_birth_w5 in 1/100, nol

```

	aid	Inter~y5	Inter~m5	cm_int~5	birth_y	birth_m	ncm_bi~h	nage~5_c	nage~5_i
1.	57101310	2017	3	1407	1976	11	923	40.33333	40
2.	57111071	2017	2	1406	1981	6	978	35.66667	35
4.	57118381	2016	6	1398	1982	9	993	33.75	33
6.	57121404	2017	7	1411	1979	7	955	38	38
7.	57121476	2016	7	1399	1980	10	970	35.75	35
9.	57131909	2017	8	1412	1981	7	979	36.08333	36
13.	57139880	2017	7	1411	1981	10	982	35.75	35
15.	57141800	2017	8	1412	1982	7	991	35.08333	35
16.	57145151	2016	6	1398	1980	8	968	35.83333	35
17.	57146734	2018	5	1421	1982	7	991	35.83333	35
18.	57154249	2018	10	1426	1976	11	923	41.91667	41
19.	57157723	2017	9	1413	1980	11	971	36.83333	36
21.	57160648	2017	1	1405	1978	7	943	38.5	38
22.	57166463	2017	8	1412	1982	10	994	34.83333	34
24.	57177419	2016	7	1399	1980	9	969	35.83333	35
25.	57178110	2017	8	1412	1981	8	980	36	36
26.	57178982	2016	8	1400	1980	11	971	35.75	35
27.	57179591	2017	7	1411	1981	8	980	35.91667	35
29.	57186582	2016	3	1395	1978	9	945	37.5	37
30.	57191909	2017	10	1414	1976	11	923	40.91667	40
31.	57192841	2017	11	1415	1980	6	966	37.41667	37
33.	57196641	2017	11	1415	1978	6	942	39.41667	39
35.	57200870	2017	8	1412	1977	7	931	40.08333	40
36.	57203993	2016	7	1399	1979	12	960	36.58333	36
38.	57211375	2017	3	1407	1980	9	969	36.5	36
39.	57212679	2016	11	1403	1979	12	960	36.91667	36
41.	57214806	2018	1	1417	1978	8	944	39.41667	39
42.	57217613	2017	8	1412	1981	8	980	36	36
44.	57220955	2017	10	1414	1978	12	948	38.83333	38
45.	57228523	2017	12	1416	1976	8	920	41.33333	41
48.	57232895	2018	1	1417	1977	12	936	40.08333	40
49.	57233403	2016	8	1400	1978	6	942	38.16667	38

50.	|	57234514	2018	2	1418	1977	10	934	40.33333	40	|
52.	|	57239363	2017	7	1411	1979	12	960	37.58333	37	|
53.	|	57239974	2016	6	1398	1981	7	979	34.91667	34	|

58.	|	57245315	2017	8	1412	1979	8	956	38	38	|
59.	|	57245379	2016	6	1398	1978	12	948	37.5	37	|
62.	|	57251197	2017	9	1413	1982	7	991	35.16667	35	|
63.	|	57256290	2017	8	1412	1979	9	957	37.91667	37	|
64.	|	57262270	2016	7	1399	1981	9	981	34.83333	34	|

65.	|	57263513	2017	11	1415	1978	12	948	38.91667	38	|
67.	|	57272274	2016	7	1399	1979	9	957	36.83333	36	|
68.	|	57275298	2017	8	1412	1980	10	970	36.83333	36	|
70.	|	57277290	2018	2	1418	1980	6	966	37.66667	37	|
72.	|	88122937	2016	7	1399	1982	6	990	34.08333	34	|

73.	|	88149345	2016	6	1398	1980	10	970	35.66667	35	|
78.	|	88251811	2017	5	1409	1978	9	945	38.66667	38	|
80.	|	90316053	2017	6	1410	1981	11	983	35.58333	35	|
82.	|	90500059	2017	8	1412	1977	9	933	39.91667	39	|
85.	|	90500638	2018	8	1424	1977	8	932	41	41	|

86.	|	90500914	2017	7	1411	1976	11	923	40.66667	40	|
88.	|	90501955	2016	6	1398	1978	12	948	37.5	37	|
89.	|	90503807	2017	5	1409	1979	8	956	37.75	37	|
90.	|	90504220	2018	2	1418	1979	6	954	38.66667	38	|
91.	|	90504248	2017	1	1405	1976	12	924	40.08333	40	|

94.	|	90506040	2016	8	1400	1977	7	931	39.08333	39	|
95.	|	90506094	2018	8	1424	1979	12	960	38.66667	38	|
96.	|	90506203	2016	7	1399	1977	12	936	38.58333	38	|
97.	|	90506236	2016	6	1398	1979	10	958	36.66667	36	|
99.	|	90506372	2016	7	1399	1975	12	912	40.58333	40	|

100.	|	90506428	2017	6	1410	1978	12	948	38.5	38	|

```

.
.
. *****
. *check the depressed mood variables
. *****
.
. sum d_score_w*_sum d_score_w*_egen d_score_w*_fs

      Variable |      Obs      Mean      Std. Dev.      Min      Max
-----+-----
d_score_w3~m |    3,139    1.143358    1.664832         0         9
d_score_w4~m |    3,147    1.214808    1.643031         0         9
d_score_w5~m |    3,115    4.348636    1.810497         3        12
d_score_w3~n |    3,147    1.14204    1.663863         0         9
d_score_w4~n |    3,147    1.214808    1.643031         0         9
-----+-----
d_score_w5~n |    3,147    4.325071    1.822761         0        12
d_score_w3~s |    3,139   -.0010432    .8723598   -.5879983    4.0698
d_score_w4~s |    3,147   -.0227965    .8491653   -.6410567    3.976017
d_score_w5~s |    3,115    .0010735    .9043176   -.6360619    3.793422

.
. *****
. * Select variables
. *****
.
. keep aid d_score_w*_fs nage_w*_i race_w3 race_w5 female_w3

. count
.   3,147

.
.
. tab1 female_w3 race_w3 d_score_w3_fs d_score_w4_fs race_w5 d_score_w5_fs nage_w3_i nage_w4_i
nage_w5_i, mis

-> tabulation of female_w3
respondent' |

```


s sex at W3	Freq.	Percent	Cum.
(0) male	1,295	41.15	41.15
(1) female	1,852	58.85	100.00
Total	3,147	100.00	

-> tabulation of race_w3

race at w3	Freq.	Percent	Cum.
(1) white	2,063	65.55	65.55
(2) black	647	20.56	86.11
(3) indians	27	0.86	86.97
(4) asian/islanders	102	3.24	90.21
(5) hispanic	299	9.50	99.71
.	9	0.29	100.00
Total	3,147	100.00	

-> tabulation of d_score_w3_fs

depression score at W3, factor score	Freq.	Percent	Cum.
-.5879983	1,605	51.00	51.00
-.2034296	110	3.50	54.50
-.111359	477	15.16	69.65
.1033931	49	1.56	71.21
.1811391	8	0.25	71.46
.2732097	109	3.46	74.93
.3652804	11	0.35	75.28
.4879618	31	0.99	76.26
.5657077	7	0.22	76.49
.5800324	202	6.42	82.90
.6577784	10	0.32	83.22
.749849	4	0.13	83.35
.7947845	4	0.13	83.48
.8419197	1	0.03	83.51
.8725305	5	0.16	83.67
.9646011	231	7.34	91.01
1.042347	5	0.16	91.17
1.056672	14	0.44	91.61
1.134418	2	0.06	91.67
1.179353	1	0.03	91.71
1.271424	8	0.25	91.96
1.34917	26	0.83	92.79
1.44124	30	0.95	93.74
1.533311	4	0.13	93.87
1.563922	1	0.03	93.90
1.655993	21	0.67	94.57
1.733738	1	0.03	94.60
1.748063	7	0.22	94.82
1.825809	7	0.22	95.04
1.91788	2	0.06	95.11
1.962815	1	0.03	95.14
2.040561	9	0.29	95.42
2.132632	24	0.76	96.19
2.210378	3	0.10	96.28
2.302449	1	0.03	96.31
2.347384	5	0.16	96.47
2.42513	2	0.06	96.54
2.439455	2	0.06	96.60
2.5172	23	0.73	97.33
2.609271	4	0.13	97.46
2.731952	4	0.13	97.59
2.824023	5	0.16	97.74
2.901769	11	0.35	98.09
2.916094	1	0.03	98.13

2.99384	|	5	0.16	98.28
3.116521	|	3	0.10	98.38
3.208592	|	8	0.25	98.63
3.300663	|	4	0.13	98.76
3.378408	|	2	0.06	98.82
3.593161	|	7	0.22	99.05
3.685231	|	3	0.10	99.14
4.0698	|	19	0.60	99.75
.	|	8	0.25	100.00

Total	|	3,147	100.00	

-> tabulation of d_score_w4_fs

depression | score at | W4, factor | score |	Freq.	Percent	Cum.	

-.6410567	|	1,464	46.52	46.52
-.1971847	|	54	1.72	48.24
-.1762125	|	598	19.00	67.24
-.0107484	|	71	2.26	69.49
.2466872	|	5	0.16	69.65
.2676594	|	92	2.92	72.58
.2886316	|	10	0.32	72.89
.4331236	|	25	0.79	73.69
.4540958	|	252	8.01	81.70
.6195599	|	1	0.03	81.73
.6905591	|	6	0.19	81.92
.7115314	|	5	0.16	82.08
.7325036	|	5	0.16	82.24
.7534758	|	3	0.10	82.33
.8769955	|	2	0.06	82.40
.8979678	|	279	8.87	91.26
.9189399	|	11	0.35	91.61
1.063432	|	1	0.03	91.64
1.084404	|	10	0.32	91.96
1.155403	|	5	0.16	92.12
1.176376	|	1	0.03	92.15
1.249868	|	2	0.06	92.21
1.320867	|	2	0.06	92.28
1.34184	|	25	0.79	93.07
1.362812	|	28	0.89	93.96
1.383784	|	1	0.03	93.99
1.507304	|	1	0.03	94.03
1.528276	|	25	0.79	94.82
1.549248	|	5	0.16	94.98
1.714712	|	2	0.06	95.04
1.785712	|	4	0.13	95.17
1.806684	|	13	0.41	95.58
1.827656	|	2	0.06	95.65
1.951176	|	1	0.03	95.68
1.972148	|	10	0.32	96.00
1.99312	|	29	0.92	96.92
2.014092	|	1	0.03	96.95
2.158584	|	3	0.10	97.04
2.250556	|	2	0.06	97.11
2.271528	|	1	0.03	97.14
2.41602	|	3	0.10	97.24
2.436992	|	25	0.79	98.03
2.457964	|	3	0.10	98.13
2.602456	|	2	0.06	98.19
2.623429	|	6	0.19	98.38
2.644401	|	1	0.03	98.41
2.880864	|	4	0.13	98.54
2.901836	|	2	0.06	98.60
3.046328	|	2	0.06	98.67
3.067301	|	4	0.13	98.79
3.088273	|	3	0.10	98.89
3.345708	|	3	0.10	98.98

3.511172 |	6	0.19	99.17
3.532145 |	6	0.19	99.36
3.976017 |	20	0.64	100.00

Total |	3,147	100.00	

-> tabulation of race_w5

race at w5 |	Freq.	Percent	Cum.

(1) white |	2,070	65.78	65.78
(2) black |	647	20.56	86.34
(3) indians |	21	0.67	87.00
(4) asian/islanders |	104	3.30	90.31
(5) hispanic |	273	8.67	98.98
. |	32	1.02	100.00

Total |	3,147	100.00	

-> tabulation of d_score_w5_fs

depression | score at | W3, factor | score |	Freq.	Percent	Cum.

-.6360619 |	1,395	44.33	44.33
-.2948494 |	614	19.51	63.84
-.1827105 |	38	1.21	65.05
.0458686 |	66	2.10	67.14
.0463631 |	9	0.29	67.43
.158502 |	70	2.22	69.65
.270641 |	2	0.06	69.72
.3870811 |	190	6.04	75.75
.3875756 |	8	0.25	76.01
.4992201 |	45	1.43	77.44
.4997145 |	1	0.03	77.47
.6118535 |	6	0.19	77.66
.7239924 |	13	0.41	78.07
.7277992 |	1	0.03	78.11
.7282936 |	3	0.10	78.20
.8404326 |	359	11.41	89.61
.9525715 |	3	0.10	89.70
.953066 |	1	0.03	89.74
1.065205 |	1	0.03	89.77
1.069012 |	6	0.19	89.96
1.069506 |	3	0.10	90.05
1.181645 |	15	0.48	90.53
1.293784 |	40	1.27	91.80
1.40973 |	1	0.03	91.83
1.410224 |	1	0.03	91.87
1.522363 |	16	0.51	92.37
1.634502 |	2	0.06	92.44
1.634997 |	10	0.32	92.76
1.747135 |	6	0.19	92.95
1.750942 |	2	0.06	93.01
1.863576 |	20	0.64	93.64
1.975715 |	18	0.57	94.22
1.976209 |	2	0.06	94.28
2.087853 |	1	0.03	94.31
2.088348 |	2	0.06	94.38
2.092155 |	2	0.06	94.44
2.204294 |	2	0.06	94.50
2.204788 |	3	0.10	94.60
2.316927 |	54	1.72	96.31
2.429066 |	3	0.10	96.41
2.433367 |	1	0.03	96.44
2.657645 |	1	0.03	96.47
2.658139 |	3	0.10	96.57
2.770278 |	7	0.22	96.79
2.998857 |	12	0.38	97.17

3.110996	|	3	0.10	97.27
3.111491	|	4	0.13	97.39
3.34007	|	11	0.35	97.74
3.452209	|	12	0.38	98.13
3.793422	|	27	0.86	98.98
.	|	32	1.02	100.00

Total | 3,147 100.00

-> tabulation of nage_w3_i

new age	|			
variable at	|			
W3,	|			
integer)	|	Freq.	Percent	Cum.
-----		-----	-----	-----
18	|	19	0.60	0.60
19	|	362	11.50	12.11
20	|	507	16.11	28.22
21	|	521	16.56	44.77
22	|	550	17.48	62.25
23	|	534	16.97	79.22
24	|	476	15.13	94.34
25	|	153	4.86	99.21
26	|	21	0.67	99.87
27	|	2	0.06	99.94
28	|	1	0.03	99.97
.	|	1	0.03	100.00

Total | 3,147 100.00

-> tabulation of nage_w4_i

new age	|			
variable at	|			
W4,	|			
integer)	|	Freq.	Percent	Cum.
-----		-----	-----	-----
24	|	4	0.13	0.13
25	|	174	5.53	5.66
26	|	454	14.43	20.08
27	|	536	17.03	37.11
28	|	529	16.81	53.92
29	|	514	16.33	70.26
30	|	547	17.38	87.64
31	|	334	10.61	98.25
32	|	47	1.49	99.75
33	|	7	0.22	99.97
.	|	1	0.03	100.00

Total | 3,147 100.00

-> tabulation of nage_w5_i

new age	|			
variable at	|			
W5,	|			
integer)	|	Freq.	Percent	Cum.
-----		-----	-----	-----
33	|	22	0.70	0.70
34	|	164	5.21	5.91
35	|	427	13.57	19.48
36	|	517	16.43	35.91
37	|	514	16.33	52.24
38	|	543	17.25	69.49
39	|	483	15.35	84.84
40	|	354	11.25	96.09
41	|	101	3.21	99.30
42	|	18	0.57	99.87
43	|	2	0.06	99.94
44	|	1	0.03	99.97

	1	0.03	100.00
Total	3,147	100.00	

```
. egen removed = rowmiss(female_w3 race_w3 d_score_w3_fs d_score_w4_fs race_w5 d_score_w5_fs
nage_w3_i nage_w4_i nage_w5_i)
```

```
. label variable removed "respondents with missing values on one of the variables"
```

```
. tab1 removed, mis
```

-> tabulation of removed

```
respondents |
  with |
  missing |
  values on |
  one of the |
  variables |
```

	Freq.	Percent	Cum.
0	3,068	97.49	97.49
1	75	2.38	99.87
2	3	0.10	99.97
3	1	0.03	100.00
Total	3,147	100.00	

```
.
.
. count if race_w3 ~= race_w5
106
```

```
. keep if (race_w3 == race_w5)
(106 observations deleted)
```

```
. keep if removed ==0
(39 observations deleted)
```

```
.
.
. *****
. * final sample size is 3,002
. *****
. count
3,002
```

```
.
.
. *****
. * select variables and Reshape the data
. *****
.
. keep aid female_w3 race_w3 d_score_w3_fs d_score_w4_fs d_score_w5_fs nage_w3_i nage_w4_i
nage_w5_i
```

```
. tab1 d_score_w3, mis
```

-> tabulation of d_score_w3_fs

```
depression |
  score at |
  W3, factor |
  score |
```

	Freq.	Percent	Cum.
-.5879983	1,529	50.93	50.93
-.2034296	102	3.40	54.33

-.111359	|	463	15.42	69.75
.1033931	|	45	1.50	71.25
.1811391	|	8	0.27	71.52
.2732097	|	108	3.60	75.12
.3652804	|	11	0.37	75.48
.4879618	|	30	1.00	76.48
.5657077	|	7	0.23	76.72
.5800324	|	193	6.43	83.14
.6577784	|	9	0.30	83.44
.749849	|	4	0.13	83.58
.7947845	|	4	0.13	83.71
.8419197	|	1	0.03	83.74
.8725305	|	4	0.13	83.88
.9646011	|	220	7.33	91.21
1.042347	|	5	0.17	91.37
1.056672	|	13	0.43	91.81
1.134418	|	2	0.07	91.87
1.179353	|	1	0.03	91.91
1.271424	|	8	0.27	92.17
1.34917	|	25	0.83	93.00
1.44124	|	28	0.93	93.94
1.533311	|	4	0.13	94.07
1.563922	|	1	0.03	94.10
1.655993	|	21	0.70	94.80
1.733738	|	1	0.03	94.84
1.748063	|	6	0.20	95.04
1.825809	|	6	0.20	95.24
1.91788	|	2	0.07	95.30
1.962815	|	1	0.03	95.34
2.040561	|	8	0.27	95.60
2.132632	|	22	0.73	96.34
2.210378	|	3	0.10	96.44
2.302449	|	1	0.03	96.47
2.347384	|	5	0.17	96.64
2.42513	|	2	0.07	96.70
2.439455	|	2	0.07	96.77
2.5172	|	23	0.77	97.53
2.609271	|	4	0.13	97.67
2.731952	|	4	0.13	97.80
2.824023	|	5	0.17	97.97
2.901769	|	11	0.37	98.33
2.916094	|	1	0.03	98.37
2.99384	|	5	0.17	98.53
3.116521	|	2	0.07	98.60
3.208592	|	8	0.27	98.87
3.300663	|	3	0.10	98.97
3.378408	|	2	0.07	99.03
3.593161	|	7	0.23	99.27
3.685231	|	3	0.10	99.37
4.0698	|	19	0.63	100.00

Total	|	3,002	100.00	

```

.
.
. *****
. * Rename the variable names before reshaping the data
. *****
. rename female_w3          female

. rename  race_w3          race

. rename  d_score_w3_fs    d_score_w3

. rename  d_score_w4_fs    d_score_w4

. rename  d_score_w5_fs    d_score_w5

. rename  nage_w3_i        nage_w3

. rename  nage_w4_i        nage_w4

```

```

. rename nage_w5_i          nage_w5
.
.
. reshape long d_score_w nage_w, i(aid) j(wave)
(note: j = 3 4 5)

Data                                wide  ->  long
-----
Number of obs.                      3002  ->  9006
Number of variables                   9     ->   6
j variable (3 values)                ->  wave
xij variables:
      d_score_w3 d_score_w4 d_score_w5  ->  d_score_w
      nage_w3   nage_w4   nage_w5     ->  nage_w
-----

. label variable wave "which wave the data were from"
.
. rename d_score_w d_score_fs
. rename nage_w    nage
.
. label variable d_score_fs "depressed mood, factor score"
. label variable nage      "age, use age st W3 to correct for errors at W5"
.
. count
  9,006
.
.
. save "D:\jason\workshop\Stata workshop\w345.dta", replace
file D:\jason\workshop\Stata workshop\w345.dta saved
.
. log close
  name: <unnamed>
  log:  D:\Jason\workshop\Stata workshop\data management_stata editor.log
  log type: text
  closed on: 22 May 2023, 11:37:11
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```