Supplemental Material 2. File 2: NSOC_R1_R5_R7_simple_061521.sav

/*Run NSOC data format statements */

/* NSOC_Round_1_Combined_PROC_FORMAT_Statement_V3.sas */

PROC FORMAT ;
  VALUE NSOC001W
    1 = "1 MALE"
    2 = "2 FEMALE" ;

VALUE NSOC002W
  1 = "1 SAMPLE PERSON"
  2 = "2 SPOUSE/PARTNER"
  3 = "3 DAUGHTER"
  4 = "4 SON"
  5 = "5 DAUGHTER-IN-LAW"
  6 = "6 SON-IN-LAW"
  7 = "7 STEPDAUGHTER"
  8 = "8 STEPSON"
  9 = "9 SISTER"
 10 = "10 BROTHER"
 11 = "11 SISTER-IN-LAW"
 12 = "12 BROTHER-IN-LAW"
 13 = "13 MOTHER"
 14 = "14 STEPMOTHER"
 15 = "15 MOTHER-IN-LAW"
 16 = "16 FATHER"
 17 = "17 STEPFATHER"
 18 = "18 FATHER-IN-LAW"
 19 = "19 GRANDDAUGHTER"
 20 = "20 GRANDSON"
 21 = "21 NIECE"
 22 = "22 NEPHEW"
 23 = "23 AUNT"
 24 = "24 UNCLE"
 25 = "25 COUSIN"
 26 = "26 STEPDAUGHTER'S SON/DAUGHTER"
 27 = "27 STEPSON'S SON/DAUGHTER"
 28 = "28 DAUGHTER-IN-LAW'S SON/DAUGHTER"
 29 = "29 SON-IN-LAW'S SON/DAUGHTER"
 30 = "30 BOARDER/RENTER"
 31 = "31 LIVE-IN HOUSEKEEPER/EMPLOYEE"
 32 = "32 ROOMMATE"
 33 = "33 EX-WIFE/EX-HUSBAND"
 34 = "34 BOYFRIEND/GIRLFRIEND"
 35 = "35 NEIGHBOR"
 36 = "36 FRIEND"
 37 = "37 STAFF PERSON AT THE PLACE SP LIVES"
 38 = "38 CO-WORKER"
 39 = "39 MINISTER, PRIEST, OR OTHER CLERGY"
 40 = "40 PSYCHIATRIST, PSYCHOLOGIST, COUNSELOR, OR THERAPIST"
 91 = "91 OTHER RELATIVE"
 92 = "92 OTHER NONRELATIVE" ;

VALUE NSOC003W
SAS ALGORITHM FOR DEMENTIA

-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
1 = "1 YES"
2 = "2 NO" ;
/*
VALUE NSOC004W
 1 = "Yes"
 2 = "No" ;
VALUE NSOC005W
 1 = "Yes"
 2 = "No" ;
VALUE NSOC006W
 1 = "Yes"
 2 = "No" ;
VALUE NSOC007W
 1 = "Yes"
 2 = "No" ;*/
VALUE NSOC008W
 1 = "1 RECORD INTERVIEW"
 2 = "2 DO NOT RECORD INTERVIEW" ;
VALUE NSOC009W
 1 = "1 Continue" ;
VALUE NSOC010W
 -7 = '-7 RF'
 8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
1 = "1 EVERY DAY"
 2 = "2 MOST DAYS"
 3 = "3 SOME DAYS"
 4 = "4 RARELY"
 5 = "5 NEVER" ;
VALUE NSOC011W
 -7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
1 = "1 YES"
 2 = "2 NO"
 7 = "7 SP DOES NOT TAKE ANY PRESCRIBED MEDICINES" ;
VALUE NSOC012W
 -7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
1 = "1 EVERY DAY"
 2 = "2 MOST DAYS"
SAS ALGORITHM FOR DEMENTIA

3 = "3 SOME DAYS"
4 = "4 RARELY" ;

VALUE NSOC013W
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
1 = "1 WALK"
2 = "2 DRIVE"
3 = "3 SOMEONE DRIVES ME"
4 = "4 TAXI"
5 = "5 BUS"
6 = "6 SUBWAY/TRAIN/LIGHT RAIL"
7 = "7 TRAIN"
8 = "8 AIRPLANE/FLY"
91 = "91 OTHER (SPECIFY)" ;

VALUE NSOC014W
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
1 = "1 MINUTES"
2 = "2 HOURS" ;

VALUE NSOC015W
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
1 = "1 JANUARY"
2 = "2 FEBRUARY"
3 = "3 MARCH"
4 = "4 APRIL"
5 = "5 MAY"
6 = "6 JUNE"
7 = "7 JULY"
8 = "8 AUGUST"
9 = "9 SEPTEMBER"
10 = "10 OCTOBER"
11 = "11 NOVEMBER"
12 = "12 DECEMBER" ;

VALUE NSOC016W
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
1 = "1 REGULAR SCHEDULE"
2 = "2 VARIED" ;

VALUE NSOC017W
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
SAS ALGORITHM FOR DEMENTIA

1 = "1 LESS THAN HALF"
2 = "2 ABOUT HALF"
3 = "3 MORE THAN HALF"
4 = "4 NEARLY ALL";

VALUE NSOC018W
   -7 = '-7 RF'
   -8 = '-8 DK'
   -1 = '-1 Inapplicable'
   -9 = '-9 Missing'
1 = "1 NUMBER OF YEARS"
2 = "2 DATE";

VALUE NSOC019W
   -7 = '-7 RF'
   -8 = '-8 DK'
   -1 = '-1 Inapplicable'
   -9 = '-9 Missing'
1 = "1 A LOT"
2 = "2 SOME"
3 = "3 A LITTLE"
4 = "4 NOT AT ALL";

VALUE NSOC020W
   -7 = '-7 RF'
   -8 = '-8 DK'
   -1 = '-1 Inapplicable'
   -9 = '-9 Missing'
1 = "1 VERY MUCH"
2 = "2 SOMEWHAT"
3 = "3 NOT SO MUCH";

VALUE NSOC021W
   -7 = '-7 RF'
   -8 = '-8 DK'
   -1 = '-1 Inapplicable'
   -9 = '-9 Missing'
1 = "1 A LITTLE DIFFICULT"
2 = "2"
3 = "3"
4 = "4"
5 = "5 VERY DIFFICULT";

VALUE NSOC022W
   -7 = '-7 RF'
   -8 = '-8 DK'
   -1 = '-1 Inapplicable'
   -9 = '-9 Missing'
1 = "1 VERY IMPORTANT"
2 = "2 SOMEWHAT IMPORTANT"
3 = "3 NOT SO IMPORTANT";

VALUE NSOC023W
   -7 = '-7 RF'
   -8 = '-8 DK'
   -1 = '-1 Inapplicable'
   -9 = '-9 Missing'
SAS ALGORITHM FOR DEMENTIA

1 = "1 EXCELLENT"
2 = "2 VERY GOOD"
3 = "3 GOOD"
4 = "4 FAIR"
5 = "5 POOR" ;

VALUE NSOC024W
1 = "1 SKIN CANCER"
2 = "2 BREAST CANCER"
3 = "3 PROSTATE"
4 = "4 OTHER TYPE OF CANCER (SPECIFY)" ;

VALUE NSOC025W
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
1 = "1 NOT AT ALL"
2 = "2 SEVERAL DAYS"
3 = "3 MORE THAN HALF THE DAYS"
4 = "4 NEARLY EVERY DAY" ;

VALUE NSOC026W
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
1 = "1 AGREE STRONGLY"
2 = "2 AGREE SOMEWHAT"
3 = "3 DISAGREE SOMEWHAT"
4 = "4 DISAGREE STRONGLY" ;

VALUE NSOC027W
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
1 = "1 MARRIED"
2 = "2 LIVING WITH A PARTNER"
3 = "3 SEPARATED"
4 = "4 DIVORCED"
5 = "5 WIDOWED"
6 = "6 NEVER MARRIED" ;

VALUE NSOC028W
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
1 = "1 NO SCHOOLING COMPLETED"
2 = "2 1ST-8TH GRADE"
3 = "3 9TH-12TH GRADE (NO DIPLOMA)"
4 = "4 HIGH SCHOOL GRADUATE (HIGH SCHOOL DIPLOMA OR EQUIVALENT)"
5 = "5 VOCATIONAL, TECHNICAL, BUSINESS, OR TRADE SCHOOL CERTIFICATE OR DIPLOMA (BEYOND HIGH SCHOOL LEVEL)"
6 = "6 SOME COLLEGE BUT NO DEGREE"
7 = "7 ASSOCIATE'S DEGREE"
SAS ALGORITHM FOR DEMENTIA

8 = "8 BACHELOR'S DEGREE"
9 = "9 MASTER'S, PROFESSIONAL, OR DOCTORAL DEGREE"

VALUE NSOC029W
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
1 = "1 YES"
2 = "2 NO"
3 = "3 RETIRED/DON'T WORK ANYMORE"

VALUE NSOC030W
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
1 = "1 YES, LOOKING FOR A JOB"
2 = "2 YES, ON LAYOFF"
3 = "3 NO"
4 = "4 RETIRED/DON'T WORK ANYMORE"

VALUE NSOC031W
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
1 = "1 DAYTIME"
2 = "2 SOME OTHER SCHEDULE"

VALUE NSOC032W
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
1 = "1 ENTER NUMBER OF HOURS"
2 = "2 ENTER NUMBER OF DAYS"

VALUE NSOC033W
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
1 = "1 8-HOUR DAYS"
2 = "2 SOMETHING LESS"
3 = "3 SOMETHING MORE"

VALUE NSOC034W
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
1 = "1 ENTER OCCUPATION"
2 = "2 CurrentOccupationSame"
97 = "3 NEVER WORKED ENTIRE LIFE"
98 = "4 HOMEMAKER/RAISED CHILDREN/WORKED IN THE HOME"
SAS ALGORITHM FOR DEMENTIA

VALUE NSOC035W
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
1 = "1 MEDICARE"
2 = "2 MEDICAID"
3 = "3 PRIVATE HEALTH INSURANCE"
4 = "4 TRICARE/CHAMPVA"
91 = "91 OTHER (SPECIFY)";

VALUE NSOC036W
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
1 = "1 LESS THAN"
2 = "2 MORE THAN";

VALUE NSOC037W
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
1 = "1 MORE THAN $1,000"
2 = "2 LESS THAN $1,000";

VALUE NSOC038W
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
1 = "1 MORE THAN $500"
2 = "2 LESS THAN $500";

VALUE NSOC039W
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
1 = "1 ENGLISH"
2 = "2 SPANISH"
91 = "91 OTHER";

VALUE NSOC040W
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
1 = "1 Yes";

VALUE RFDK
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable (nursing home resident or residential care no FQ)'
-9 = '-9 Missing';
SAS ALGORITHM FOR DEMENTIA

VALUE RF997DK
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
997 = '997 Number of hours vary each week';

VALUE RFDK_F
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';

VALUE RFDK_Y
1 = ' 1 Yes'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';

VALUE RFDK_YN
1 = ' 1 Yes'
2 = ' 2 No'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';

value OCC2010F /*with categories for distribution checking*/
0010-0430 = "0010-0430 Management Occupations"
0500-0950 = "0500-0950 Business and Financial Operations Occupations"
1000-1240 = "1000-1240 Computer and Mathematical Occupations"
1300-1560 = "1300-1560 Architecture and Engineering Occupations"
1600-1965 = "1600-1965 Life, Physical, and Social Science Occupations"
2000-2060 = "2000-2060 Community and Social Service Occupations"
2100-2160 = "2100-2160 Legal Occupations"
2200-2550 = "2200-2550 Education, Training, and Library Occupations"
2600-2960 = "2600-2960 Arts, Design, Entertainment, Sports, and Media Occupations"
3000-3540 = "3000-3540 Healthcare Practitioners and Technical Occupations"
3600-3655 = "3600-3655 Healthcare Support Occupations"
3700-3955 = "3700-3955 Protective Service Occupations"
4000-4160 = "4000-4160 Food Preparation and Serving Related Occupations"
4200-4250 = "4200-4250 Building and Grounds Cleaning and Maintenance Occupations"
4300-4650 = "4300-4650 Personal Care and Service Occupations"
4700-4965 = "4700-4965 Sales and Related Occupations"
5000-5940 = "5000-5940 Office and Administrative Support Occupations"
6000-6130 = "6000-6130 Farming, Fishing, and Forestry Occupations"
6200-6940 = "6200-6940 Construction and Extraction Occupations"
7000-7630 = "7000-7630 Installation, Maintenance, and Repair Occupations"
7700-8965 = "7700-8965 Production Occupations"
9000-9750 = "9000-9750 Transportation and Material Moving Occupations"
9800-9830 = "9800-9830 Military Specific Occupations"
**SAS Algorithm for Dementia**

9920 = "9920 Unemployed, with no work experience in the last 5 years or earlier or never worked"

-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';

```plaintext
value OCC20_F /*with categories for distribution checking*/
1 = "1  0010-0430 Management Occupations"
2 = "2  0500-0950 Business and Financial Operations Occupations"
3 = "3  1000-1240 Computer and Mathematical Occupations"
4 = "4  1300-1560 Architecture and Engineering Occupations"
5 = "5  1600-1965 Life, Physical, and Social Science Occupations"
6 = "6  2000-2060 Community and Social Service Occupations"
7 = "7  2100-2160 Legal Occupations"
8 = "8  2200-2550 Education, Training, and Library Occupations"
9 = "9  2600-2960 Arts, Design, Entertainment, Sports, and Media Occupations"
10 = "10  3000-3540 Healthcare Practitioners and Technical Occupations"
11 = "11  3600-3655 Healthcare Support Occupations"
12 = "12  3700-3955 Protective Service Occupations"
13 = "13  4000-4160 Food Preparation and Serving Related Occupations"
14 = "14  4200-4250 Building and Grounds Cleaning and Maintenance Occupations"
15 = "15  4300-4650 Personal Care and Service Occupations"
16 = "16  4700-4965 Sales and Related Occupations"
17 = "17  5000-5940 Office and Administrative Support Occupations"
18 = "18  6000-6130 Farming, Fishing, and Forestry Occupations"
19 = "19  6200-6940 Construction and Extraction Occupations"
20 = "20  7000-7630 Installation, Maintenance, and Repair Occupations"
21 = "21  7700-8965 Production Occupations"
22 = "22  9000-9750 Transportation and Material Moving Occupations"
23 = "23  9800-9870 Military Specific Occupations"
24 = "24  9920 Unemployed, with no work experience in the last 5 years or earlier or never worked"
25 = "25  Blank field"
94 = "94  Uncodeable"
97 = "97  Never worked entire life"
98 = "98  Homemaker / raised children"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';
```

```plaintext
value $OCCF /*with categories for distribution checking*/
"0010"-"0430" = "0010-0430 Management Occupations"
"0500"-"0950" = "0500-0950 Business and Financial Operations Occupations"
"1000"-"1240" = "1000-1240 Computer and Mathematical Occupations"
"1300"-"1560" = "1300-1560 Architecture and Engineering Occupations"
"1600"-"1965" = "1600-1965 Life, Physical, and Social Science Occupations"
"2000"-"2060" = "2000-2060 Community and Social Service Occupations"
"2100"-"2160" = "2100-2160 Legal Occupations"
"2200"-"2550" = "2200-2550 Education, Training, and Library Occupations"
```
SAS ALGORITHM FOR DEMENTIA

"2600"-"2960" = "2600-2960 Arts, Design, Entertainment, Sports, and Media Occupations"
"3000"-"3540" = "3000-3540 Healthcare Practitioners and Technical Occupations"
"3600"-"3655" = "3600-3655 Healthcare Support Occupations"
"3700"-"3955" = "3700-3955 Protective Service Occupations"
"4000"-"4160" = "4000-4160 Food Preparation and Serving Related Occupations"
"4200"-"4250" = "4200-4250 Building and Grounds Cleaning and Maintenance Occupations"
"4300"-"4650" = "4300-4650 Personal Care and Service Occupations"
"4700"-"4965" = "4700-4965 Sales and Related Occupations"
"5000"-"5940" = "5000-5940 Office and Administrative Support Occupations"
"6000"-"6130" = "6000-6130 Farming, Fishing, and Forestry Occupations"
"6200"-"6940" = "6200-6940 Construction and Extraction Occupations"
"7000"-"7630" = "7000-7630 Installation, Maintenance, and Repair Occupations"
"7700"-"8965" = "7700-8965 Production Occupations"
"9000"-"9750" = "9000-9750 Transportation and Material Moving Occupations"
"9800"-"9830" = "9800-9830 Military Specific Occupations"
"9920" = "9920 Unemployed, with no work experience in the last 5 years or earlier or never worked"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';

value OCC_SI /*with categories for distribution checking*/
11 = '11 Agriculture, Forestry, Fishing and Hunting'
21 = '21 Mining, Quarrying, and Oil and Gas Extraction'
22 = '22 Utilities'
23 = '23 Construction'
31 = '31-33 Manufacturing'
32 = '31-33 Manufacturing'
33 = '31-33 Manufacturing'
42 = '42 Wholesale Trade'
44 = '44-45 Retail Trade'
45 = '44-45 Retail Trade'
48 = '48-49 Transportation and Warehousing'
49 = '48-49 Transportation and Warehousing'
51 = '51 Information'
52 = '52 Finance and Insurance'
53 = '53 Real Estate and Rental and Leasing'
54 = '54 Professional, Scientific, and Technical Services'
55 = '55 Management of Companies and Enterprises'
56 = '56 Administrative and Support and Waste Management and Remediation Services'
61 = '61 Educational Services'
62 = '62 Health Care and Social Assistance'
71 = '71 Arts, Entertainment, and Recreation'
72 = '72 Accommodation and Food Services'
81 = '81 Other Services (except Public Administration)'
92 = '92 Public Administration'
94 = "94 Uncodeable"
SAS ALGORITHM FOR DEMENTIA

99 = '99 None'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';

VALUE dnsoc
1 = '1 Eligible and interviewed'
2 = '2 Eligible and not interviewed phone number provided'
3 = '3 Eligible and not interviewed SP refused'
4 = '4 Eligible and not interviewed other'
5 = '5 Eligible and not fielded for NSOC'
6 = '6 5+ caregivers and not sampled'
7 = '7 Ineligible'
-1 = '-1 Inapplicable';

VALUE fdnsoc
1 = '1 SP NSOC Eligible'
-1 = '-1 Inapplicable';

VALUE fdintdys
1 = '1 30 days or less'
2 = '2 31-60 days'
3 = '3 61-90 days'
4 = '4 91-120 days'
5 = '5 121 days or more'
-1 = '-1 Inapplicable';

VALUE $fdTRCcd
'CO' = 'CO Complete Interview'
'IE' = 'IE Ineligible Interview'
'I2' = 'I2 Ineligible - error'
'I3' = 'I3 Ineligible - other'
'LH' = 'LH Final Language Problem - Hearing/Speech'
'LP' = 'LP Final Language Problem'
'MC' = 'MC Max Call'
'NA' = 'NA No Answer'
'ND' = 'ND Subject deceased'
'NL' = 'NL Not Locatable'
'NM' = 'NM No Answer: Answering Machine'
'NP' = 'NP Not available in Field Period'
'NS' = 'NS Subject Sick'
'NX' = 'NX Eligible, not fielded'
'RB' = 'RB Final refusal'
'RF' = 'RF Refusal - preload from SP interview'
'RP' = 'RP Final refusal - inbound call'
'OO' = 'OO Oth Out of scope- SP deceased';

VALUE inclimfai
1 = "1 Reported in NSOC I"
2 = "2 Reported in NHATS R1 (Spouse/partner of SP)"
3 = "3 Imputed in NSOC I"
4 = "4 Imputed in NHATS R1 (Spouse/partner of SP)";

RUN;
PROC FORMAT;
VALUE $RFDK_F
    '-7' = '-7 RF'
    '-8' = '-8 DK'
    '-1' = '-1 Inapplicable'
    '-9' = '-9 Missing';
VALUE RFDK_F
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
VALUE RFDK_Y
    1 = ' 1 Yes'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
VALUE W000001W
    1 = "1 MALE"
    2 = "2 FEMALE"
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing';
VALUE W000002W
    1 = "1 SAMPLE PERSON"
    2 = "2 SPOUSE/PARTNER"
    3 = "3 DAUGHTER"
    4 = "4 SON"
    5 = "5 DAUGHTER-IN-LAW"
    6 = "6 SON-IN-LAW"
    7 = "7 STEPDAUGHTER"
    8 = "8 STEPSON"
    9 = "9 SISTER"
    10 = "10 BROTHER"
    11 = "11 SISTER-IN-LAW"
    12 = "12 BROTHER-IN-LAW"
    13 = "13 MOTHER"
    14 = "14 STEPMOTHER"
    15 = "15 MOTHER-IN-LAW"
    16 = "16 FATHER"
    17 = "17 STEPFATHER"
    18 = "18 FATHER-IN-LAW"
    19 = "19 GRANDDAUGHTER"
    20 = "20 GRANDSON"
    21 = "21 NIECE"
    22 = "22 NEPHEW"
    23 = "23 AUNT"
    24 = "24 UNCLE"
    25 = "25 COUSIN"
    26 = "26 STEPDAUGHTER'S SON/DAUGHTER"
    27 = "27 STEPSON'S SON/DAUGHTER"
    28 = "28 DAUGHTER-IN-LAW'S SON/DAUGHTER"
SAS ALGORITHM FOR DEMENTIA

29 = "29 SON-IN-LAW'S SON/DAUGHTER"
30 = "30 BOARDER/RENTER"
31 = "31 LIVE-IN HOUSEKEEPER/EMPLOYEE"
32 = "32 ROOMMATE"
33 = "33 EX-WIFE/EX-HUSBAND"
34 = "34 BOYFRIEND/GIRLFIEND"
35 = "35 NEIGHBOR"
36 = "36 FRIEND"
37 = "37 STAFF PERSON AT THE PLACE SP LIVES"
38 = "38 CO-WORKER"
39 = "39 MINISTER, PRIEST, OR OTHER CLERGY"
40 = "40 PSYCHIATRIST, PSYCHOLOGIST, COUNSELOR, OR THERAPIST"
91 = "91 OTHER RELATIVE"
92 = "92 OTHER NONRELATIVE"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';
VALUE W000003W
  1 = "1 White, non-Hispanic"
  2 = "2 Black, non-Hispanic"
  3 = "3 Other (Am Indian/Asian/Native Hawaiian/Pacific Islander/other specify), non-Hispanic"
  4 = "4 Hispanic"
  5 = "5 More than one and DKRF primary"
  6 = "6 DKRF";
VALUE W000004W
  1 = "1 YES"
  2 = "2 NO"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';
VALUE W000006W
  1 = "1 30 days or less"
  2 = "2 31-60 days"
  3 = "3 61-90 days"
  4 = "4 91-120 days"
  5 = "5 121 days or more"
-1 = '-1 Inapplicable';
VALUE W000007W
  1 = "1 WHITE or CAUCASIAN"
  2 = "2 BLACK or AFRICAN AMERICAN"
  3 = "3 AMERICAN INDIAN or ALASKA NATIVE"
  4 = "4 ASIAN"
  5 = "5 NATIVE HAWAIIAN or OTHER PACIFIC ISLANDER"
  6 = "6 DO NOT HAVE A PRIMARY RACE"*/
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';
VALUE W000008W
  1 = "1 SP NSOC Eligible"
  2 = '-1 Inapplicable';
VALUE W000009W
  1 = "1 Eligible and interviewed"
  2 = "2 Eligible and not interviewed phone number provided"
SAS ALGORITHM FOR DEMENTIA

3 = "3 Eligible and not interviewed SP refused"
4 = "4 Eligible and not interviewed other"
5 = "5 Eligible and not fielded for NSOC"
6 = "5+ caregivers and not sampled"
7 = "7 Ineligible"
-1 = "-1 Inapplicable"

VALUE W000011W
997 = "997 NUMBER OF HOURS VARY EACH WEEK"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'

VALUE W000012W
1 = "1 EVERY DAY"
2 = "2 MOST DAYS"
3 = "3 SOME DAYS"
4 = "4 RARELY"
5 = "5 NEVER"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'

VALUE W000013W
1 = "1 YES"
2 = "2 NO"
7 = "7 SP DOES NOT TAKE ANY PRESCRIBED MEDICINES"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'

VALUE W000014W
1 = "1 EVERY DAY"
2 = "2 MOST DAYS"
3 = "3 SOME DAYS"
4 = "4 RARELY"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'

VALUE W000015W
1 = "1 A LOT"
2 = "2 SOMewhat"
3 = "3 A LITTLE"
4 = "4 NOT AT ALL"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'

VALUE W000016W
1 = "1 WALK"
2 = "2 DRIVE"
3 = "3 SOMEONE DRIVES ME"
4 = "4 TAXI"
5 = "5 BUS"
6 = "6 SUBWAY/TRAIN/LIGHT RAIL"
7 = "7 TRAIN"
8 = "8 AIRPLANE/FLY"
SAS ALGORITHM FOR DEMENTIA

91 = "91 OTHER (SPECIFY)"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';
VALUE W000017W
  1 = "1 MINUTES"
  2 = "2 HOURS"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';
VALUE W000018W
  1 = "1 JANUARY"
  2 = "2 FEBRUARY"
  3 = "3 MARCH"
  4 = "4 APRIL"
  5 = "5 MAY"
  6 = "6 JUNE"
  7 = "7 JULY"
  8 = "8 AUGUST"
  9 = "9 SEPTEMBER"
 10 = "10 OCTOBER"
 11 = "11 NOVEMBER"
 12 = "12 DECEMBER"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';
VALUE W000019W
  1 = "1 REGULAR SCHEDULE"
  2 = "2 VARIED"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';
VALUE W000020W
  1 = "1 LESS THAN HALF"
  2 = "2 ABOUT HALF"
  3 = "3 MORE THAN HALF"
  4 = "4 NEARLY ALL"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';
VALUE W000021W
  1 = "1 NUMBER OF YEARS"
  2 = "2 DATE"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';
VALUE W000022W
  1 = "1 A LOT"
  2 = "2 SOME"
  3 = "3 A LITTLE"
  4 = "4 NOT AT ALL"
### SAS Algorithm for Dementia

-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';

**VALUE W000023W**
1 = "1 VERY MUCH"
2 = "2 SOMEWHAT"
3 = "3 NOT SO MUCH"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';

**VALUE W000024W**
1 = "1 A LITTLE DIFFICULT"
2 = "2"
3 = "3"
4 = "4"
5 = "5 VERY DIFFICULT"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';

**VALUE W000025W**
1 = "1 MORE THAN FAIR SHARE"
2 = "2 LESS THAN FAIR SHARE"
3 = "3 FAIR AMOUNT"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';

**VALUE W000026W**
1 = "1 VERY IMPORTANT"
2 = "2 SOMewhat IMPORTANT"
3 = "3 NOT SO IMPORTANT"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';

**VALUE W000027W**
1 = "1 EXCELLENT"
2 = "2 VERY GOOD"
3 = "3 GOOD"
4 = "4 FAIR"
5 = "5 POOR"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';

**VALUE W000028W**
1 = "1 SKIN CANCER"
2 = "2 BREAST CANCER"
3 = "3 PROSTATE"
4 = "4 OTHER TYPE OF CANCER (SPECIFY)"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';
### SAS Algorithm for Dementia

**Value W000029W**
1. \(1 = "1\) EVERY NIGHT"
2. \(2 = "2\) MOST NIGHTS"
3. \(3 = "3\) SOME NIGHTS"
4. \(4 = "4\) RARELY"
5. \(5 = "5\) NEVER"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';

**Value W000030W**
1. \(1 = "1\) NOT AT ALL"
2. \(2 = "2\) SEVERAL DAYS"
3. \(3 = "3\) MORE THAN HALF THE DAYS"
4. \(4 = "4\) NEARLY EVERY DAY"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';

**Value W000031W**
1. \(1 = "1\) AGREE STRONGLY"
2. \(2 = "2\) AGREE SOMEWHAT"
3. \(3 = "3\) DISAGREE SOMEWHAT"
4. \(4 = "4\) DISAGREE STRONGLY"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';

**Value W000032W**
1. \(1 = "1\) MARRIED"
2. \(2 = "2\) LIVING WITH A PARTNER"
3. \(3 = "3\) SEPARATED"
4. \(4 = "4\) DIVORCED"
5. \(5 = "5\) WIDOWED"
6. \(6 = "6\) NEVER MARRIED"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';

**Value W000033W**
1. \(1 = "1\) NO SCHOOLING COMPLETED"
2. \(2 = "2\) 1ST-8TH GRADE"
3. \(3 = "3\) 9TH-12TH GRADE (NO DIPLOMA)"
4. \(4 = "4\) HIGH SCHOOL GRADUATE (HIGH SCHOOL DIPLOMA OR EQUIVALENT)"
5. \(5 = "5\) VOCATIONAL, TECHNICAL, BUSINESS, OR TRADE SCHOOL CERTIFICATE OR DIPLOMA (BEYOND HIGH SCHOOL LEVEL)"
6. \(6 = "6\) SOME COLLEGE BUT NO DEGREE"
7. \(7 = "7\) ASSOCIATE'S DEGREE"
8. \(8 = "8\) BACHELOR'S DEGREE"
9. \(9 = "9\) MASTER'S, PROFESSIONAL, OR DOCTORAL DEGREE"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';

**Value W000034W**
1. \(1 = "1\) YES"
2. \(2 = "2\) NO"
SAS ALGORITHM FOR DEMENTIA

3 = "3 RETIRED/DON'T WORK ANYMORE"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';
VALUE W000035W
1 = "1 YES, LOOKING FOR A JOB"
2 = "2 YES, ON LAYOFF"
3 = "3 NO"
4 = "4 RETIRED/DON'T WORK ANYMORE"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';
VALUE W000036W
1 = "1 DAYTIME"
2 = "2 SOME OTHER SCHEDULE"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';
VALUE W000037W
1 = "1 ENTER NUMBER OF HOURS"
2 = "2 ENTER NUMBER OF DAYS"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';
VALUE W000038W
1 = "1 8-HOUR DAYS"
2 = "2 SOMETHING LESS"
3 = "3 SOMETHING MORE"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';
VALUE W000039W
1 = "1 ENTER OCCUPATION"
2 = "2 ^CurrentOccupationSame"
97 = "97 NEVER WORKED ENTIRE LIFE"
98 = "98 HOMEMAKER/RAISED CHILDREN/WORKED IN THE HOME"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';
VALUE W000040W
1 = "1 MEDICARE"
2 = "2 MEDICAID"
3 = "3 PRIVATE HEALTH INSURANCE"
4 = "4 TRICARE/CHAMPVA"
91 = "91 OTHER (SPECIFY)"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';
VALUE W000041W
1 = "1 LESS THAN"
SAS ALGORITHM FOR DEMENTIA

2 = "2 MORE THAN"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';
VALUE W000042W
1 = "1 MORE THAN $1,000"
2 = "2 LESS THAN $1,000"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';
VALUE W000043W
1 = "1 MORE THAN $500"
2 = "2 LESS THAN $500"
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';
VALUE OCC_CODE
1 = '1 Management Occupations: 0010-0430'
2 = '2 Business and Financial Operations Occupations: 0500-0950'
3 = '3 Computer and mathematical occupations: 1000-1240'
4 = '4 Architecture and Engineering Occupations: 1300-1560'
5 = '5 Life, Physical, and Social Science Occupations: 1600-1965'
6 = '6 Community and Social Service Occupations: 2000-2060'
7 = '7 Legal Occupations: 2100-2160'
8 = '8 Education, Training, and Library Occupations: 2200-2550'
9 = '9 Arts, Design, Entertainment, Sports, and Media Occupations: 2600-2960'
10 = '10 Healthcare Practitioners and Technical Occupations: 3000-3540'
11 = '11 Healthcare Support Occupations: 3600-3655'
12 = '12 Protective Service Occupations: 3700-3955'
13 = '13 Food Preparation and Serving Related Occupations: 4000-4160'
14 = '14 Building and Grounds Cleaning and Maintenance Occupations: 4200-4250'
15 = '15 Personal Care and Service Occupations: 4300-4650'
16 = '16 Sales and Related Occupations: 4700-4965'
17 = '17 Office and Administrative Support Occupations: 5000-5940'
18 = '18 Farming, Fishing, and Forestry Occupations: 6000-6130'
19 = '19 Construction and Extraction Occupations: 6200-6940'
20 = '20 Installation, Maintenance, and Repair Occupations: 7000-7630'
21 = '21 Production Occupations: 7700-8965'
22 = '22 Transportation and Material Moving Occupations: 9000-9750'
23 = '23 Military Specific Occupations: 9800-9830'
24 = '24 No current occ (Unemployed, no work in the last 5 years, never worked): 9920'
25 = '25 Blank field'
26 = '26 Code did not match'
94 = '94 Uncodable'
95 = '95 Never Worked Entire Life'
96 = '96 Homemaker/Raised Children'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';
   value OCC_SI /*with categories for distribution checking*/
SAS ALGORITHM FOR DEMENTIA

11 = '11 Agriculture, Forestry, Fishing and Hunting'
21 = '21 Mining, Quarrying, and Oil and Gas Extraction'
22 = '22 Utilities'
23 = '23 Construction'
31 = '31-33 Manufacturing'
32 = '31-33 Manufacturing'
33 = '31-33 Manufacturing'
42 = '42 Wholesale Trade'
44 = '44-45 Retail Trade'
45 = '44-45 Retail Trade'
48 = '48-49 Transportation and Warehousing'
49 = '48-49 Transportation and Warehousing'
51 = '51 Information'
52 = '52 Finance and Insurance'
53 = '53 Real Estate and Rental and Leasing'
54 = '54 Professional, Scientific, and Technical Services'
55 = '55 Management of Companies and Enterprises'
56 = '56 Administrative and Support and Waste Management and Remediation Services'
61 = '61 Educational Services'
62 = '62 Health Care and Social Assistance'
71 = '71 Arts, Entertainment, and Recreation'
72 = '72 Accommodation and Food Services'
81 = '81 Other Services (except Public Administration)'
92 = '92 Public Administration'
94 = "94 Uncodeable"
99 = '99 None'

-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';

VALUE inc5imfa
1 = "1 Reported in NSOC II"
2 = "2 Reported in NHATS R5 (Spouse/partner of SP)"
3 = "3 Imputed in NSOC II"
4 = "4 Imputed in NHATS R5 (Spouse/partner of SP)";

RUN;

/*===================================================================*/
/* NSOC_R7_Crss_Combined_PROC_FORMAT_Statement_V2.sas */
options extendobscounter=no nobmterr;
**SAS ALGORITHM FOR DEMENTIA**

```sas
PROC FORMAT;
  VALUE $RFDK_F
    '-7' = '-7 RF'
    '-8' = '-8 DK'
    '-1' = '-1 Inapplicable'
    '-9' = '-9 Missing'
  ;
  VALUE RFDK_F
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
  ;
  VALUE RFDK_S
    997 = '997 Hours vary each week'
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
  ;
  VALUE RFDK_Y
    1 = '1 Yes'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
  ;
  VALUE W000001W
    1 = "1 YES"
    2 = "2 NO"
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
  ;
  VALUE W000002W
    1 = "1 MALE"
    2 = "2 FEMALE"
    -2 = '-2 Helped last month, SP alive'
    -3 = '-3 Helped last month of life, SP deceased'
    -4 = '-4 Did not help last month or in last month of life'
    -7 = '-7 RF'
    -8 = '-8 DK'
    -1 = '-1 Inapplicable'
    -9 = '-9 Missing'
  ;
```

DATA SPARES;
  VALUE W000003W
  1 = "1 SAMPLE PERSON"
  2 = "2 SPOUSE/PARTNER"
  3 = "3 DAUGHTER"
  4 = "4 SON"
  5 = "5 DAUGHTER-IN-LAW"
  6 = "6 SON-IN-LAW"
  7 = "7 STEPDaugther"
  8 = "8 STEPSON"
  9 = "9 SISTEr"
 10 = "10 BROTHER"
 11 = "11 SISTER-IN-LAW"
 12 = "12 BROTHER-IN-LAW"
 13 = "13 MOTHER"
 14 = "14 STEPMOTHER"
 15 = "15 MOTHER-IN-LAW"
 16 = "16 FATHER"
 17 = "17 STEPFATHER"
 18 = "18 FATHER-IN-LAW"
 19 = "19 GRANDDAUGHTER"
 20 = "20 GRANDSON"
 21 = "21 NIECE"
 22 = "22 NEPHEW"
 23 = "23 AUNT"
 24 = "24 UNCLE"
 25 = "25 COUSIN"
 26 = "26 STEPDaughter'S SON/DAUGHTER"
 27 = "27 STEPSON'S SON/DAUGHTER"
 28 = "28 DAUGHTER-IN-LAW'S SON/DAUGHTER"
 29 = "29 SON-IN-LAW'S SON/DAUGHTER"
 30 = "30 BOARDER/RENTER"
 31 = "31 LIVe-IN HOUSEKEEPER/EMPLOYEE"
 32 = "32 ROOMMATE"
 33 = "33 EX-Wife/EX-HUSBAND"
 34 = "34 BOYFRIEND/GIRLFRIEND"
 35 = "35 NEIGHBOR"
 36 = "36 FRIEnD"
 37 = "37 STAFF PERSON AT THE PLACE SP LIVES"
 38 = "38 CO-WORKER"
 39 = "39 MINISTER, PRIEST, OR OTHER CLERGY"
 40 = "40 PSYCHIATRIST, PSYCHOLOGIST, COUNSELOR, OR THERAPIST"
 41 = "41 OTHER RELATIVE"
 42 = "42 OTHER NONRELATIVE"
-2 = '  -2 Helped last month, SP alive'
-3 = '   -3 Helped last month of life, SP deceased'
-4 = '   -4 Did not help last month or in last month of life'
-7 = '   -7 RF'
-8 = '  -8 DK'
-9 = '  -9 Inapplicable'
 92 = ' 92 OTHER NONRELATIVE'
-9 = '  -9 Missing'
;
SAS ALGORITHM FOR DEMENTIA

VALUE W000004W
1 = "1 White, non-Hispanic"
2 = "2 Black, non-Hispanic"
3 = "3 Other (Am Indian/Asian/Native Hawaiian/Pacific Islander/other specify), non-Hispanic"
4 = "4 Hispanic"
5 = "5 More than one and DKRF primary"
6 = "6 DKRF"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'

VALUE W000005W
1 = '1 Yes - Breakoff'
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'

VALUE W000006W
1 = '1 30 days or less'
2 = '2 31-60 days'
3 = '3 61-90 days'
4 = '4 91-120 days'
5 = '5 121 days or more'
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'

VALUE W000013W
1 = "1 YES"
2 = "2 NO"
7 = "7 SP DOES NOT TAKE ANY PRESCRIBED MEDICINES"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'

VALUE W000014W
2 = "2 Helped last month, SP alive"
3 = "3 Helped last month of life, SP deceased"
4 = "4 Did not help last month or in last month of life"
-2 = '-2 Helped last month, SP alive'
SAS ALGORITHM FOR DEMENTIA

-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'

; VALUE W000017W
1 = "1 EVERY DAY"
2 = "2 MOST DAYS"
3 = "3 SOME DAYS"
4 = "4 RARELY"
5 = "5 NEVER"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'

; VALUE W000018W
1 = "1 JANUARY"
2 = "2 FEBRUARY"
3 = "3 MARCH"
4 = "4 APRIL"
5 = "5 MAY"
6 = "6 JUNE"
7 = "7 JULY"
8 = "8 AUGUST"
9 = "9 SEPTEMBER"
10 = "10 OCTOBER"
11 = "11 NOVEMBER"
12 = "12 DECEMBER"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';

VALUE W000019W
1 = "1 EVERY DAY"
2 = "2 MOST DAYS"
3 = "3 SOME DAYS"
4 = "4 RARELY"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';
SAS ALGORITHM FOR DEMENTIA

VALUE W000020W
1 = "1 YES"
2 = "2 NO OR NOT ENOUGH"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'

VALUE W000021W
1 = "1 REGULAR SCHEDULE"
2 = "2 VARIED"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'

VALUE W000022W
1 = "1 LESS THAN HALF"
2 = "2 ABOUT HALF"
3 = "3 MORE THAN HALF"
4 = "4 NEARLY ALL"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'

VALUE W000023W
1 = "1 NUMBER OF YEARS"
2 = "2 DATE"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'

VALUE W000024W
1 = "1 A LOT"
2 = "2 SOME"
3 = "3 A LITTLE"
4 = "4 NOT AT ALL"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
SAS ALGORITHM FOR DEMENTIA

-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'

;  

VALUE W000025W  
1 = "1 VERY MUCH"
2 = "2 SOMEWHAT"
3 = "3 NOT SO MUCH"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'

;  

VALUE W000026W  
1 = "1 A LITTLE DIFFICULT"
2 = "2"
3 = "3"
4 = "4"
5 = "5 VERY DIFFICULT"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'

;  

VALUE W000027W  
1 = "1 VERY DIFFICULT"
2 = "2 SOMEWHAT DIFFICULT"
3 = "3 A LITTLE DIFFICULT"
4 = "4 NOT AT ALL DIFFICULT"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'

;  

VALUE W000028W  
1 = "1 MORE THAN FAIR SHARE"
2 = "2 LESS THAN FAIR SHARE"
3 = "3 FAIR AMOUNT"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
SAS ALGORITHM FOR DEMENTIA

-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
;
VALUE W000029W
  1 = "1 YES"
  2 = "2 NO OR NOT ENOUGH"
  3 = "3 DOES NOT APPLY"
  -2 = '-2 Helped last month, SP alive'
  -3 = '-3 Helped last month of life, SP deceased'
  -4 = '-4 Did not help last month or in last month of life'
  -7 = '-7 RF'
  -8 = '-8 DK'
  -1 = '-1 Inapplicable'
  -9 = '-9 Missing'
;
VALUE W000030W
  1 = "1 ALWAYS"
  2 = "2 USUALLY"
  3 = "3 SOMETIMES"
  4 = "4 NEVER"
  5 = "5 DOES NOT APPLY"
  -2 = '-2 Helped last month, SP alive'
  -3 = '-3 Helped last month of life, SP deceased'
  -4 = '-4 Did not help last month or in last month of life'
  -7 = '-7 RF'
  -8 = '-8 DK'
  -1 = '-1 Inapplicable'
  -9 = '-9 Missing'
;
VALUE W000031W
  1 = "1 OFTEN"
  2 = "2 SOMETIMES"
  3 = "3 RARELY"
  -2 = '-2 Helped last month, SP alive'
  -3 = '-3 Helped last month of life, SP deceased'
  -4 = '-4 Did not help last month or in last month of life'
  -7 = '-7 RF'
  -8 = '-8 DK'
  -1 = '-1 Inapplicable'
  -9 = '-9 Missing'
;
VALUE W000032W
  1 = "1 A LOT"
  2 = "2 SOMEWHAT"
  3 = "3 A LITTLE"
  4 = "4 NOT AT ALL"
  -2 = '-2 Helped last month, SP alive'
  -3 = '-3 Helped last month of life, SP deceased'
  -4 = '-4 Did not help last month or in last month of life'
  -7 = '-7 RF'
  -8 = '-8 DK'
  -1 = '-1 Inapplicable'
  -9 = '-9 Missing'
SAS ALGORITHM FOR DEMENTIA

; VALUE W000033W
1 = "1 USUAL PROVIDER"
2 = "2 SOMEONE ELSE"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'

; VALUE W000034W
1 = "1 ALWAYS"
2 = "2 USUALLY"
3 = "3 SOMETIMES"
4 = "4 NEVER"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'

; VALUE W000035W
1 = "1 SP'S HOME"
2 = "2 ANOTHER FACILITY"
3 = "3 RESPONDENT'S HOME"
91 = "91 ANOTHER PLACE (SPECIFY)"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'

; VALUE W000036W
1 = "1 WALK/WALKED"
2 = "2 DRIVE/DROVE"
3 = "3 SOMEONE DRIVES/DROVE ME"
4 = "4 TAXI/UBER/LYFT"
5 = "5 BUS"
6 = "6 SUBWAY/LIGHTRAIL"
7 = "7 TRAIN"
8 = "8 AIRPLANE/FLY/FLEW"
91 = "91 OTHER (SPECIFY)"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
SAS ALGORITHM FOR DEMENTIA

-1 = '-1 Inapplicable'
-9 = '-9 Missing'

VALUE W000037W
  1 = "1 MINUTES"
  2 = "2 HOURS"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'

VALUE W000038W
  1 = "1 VERY IMPORTANT"
  2 = "2 SOMEWHAT IMPORTANT"
  3 = "3 NOT SO IMPORTANT"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'

VALUE W000039W
  1 = "1 EXCELLENT"
  2 = "2 VERY GOOD"
  3 = "3 GOOD"
  4 = "4 FAIR"
  5 = "5 POOR"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'

VALUE W000041W
  1 = "1 EVERY NIGHT"
  2 = "2 MOST NIGHTS"
  3 = "3 SOME NIGHTS"
  4 = "4 RARELY"
  5 = "5 NEVER"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
SAS ALGORITHM FOR DEMENTIA

;
VALUE W000042W
  1 = "1 NOT AT ALL"
  2 = "2 SEVERAL DAYS"
  3 = "3 MORE THAN HALF THE DAYS"
  4 = "4 NEARLY EVERY DAY"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
;
VALUE W000043W
  1 = "1 AGREE STRONGLY"
  2 = "2 AGREE SOMEWHAT"
  3 = "3 DISAGREE SOMEWHAT"
  4 = "4 DISAGREE STRONGLY"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
;
VALUE W000044W
  1 = "1 MARRIED"
  2 = "2 LIVING WITH A PARTNER"
  3 = "3 SEPARATED"
  4 = "4 DIVORCED"
  5 = "5 WIDOWED"
  6 = "6 NEVER MARRIED"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
;
VALUE W000045W
  1 = "1 NO SCHOOLING COMPLETED"
  2 = "2 1ST-8TH GRADE"
  3 = "3 9TH-12TH GRADE (NO DIPLOMA)"
  4 = "4 HIGH SCHOOL GRADUATE (HIGH SCHOOL DIPLOMA OR EQUIVALENT)"
  5 = "5 VOCATIONAL, TECHNICAL, BUSINESS, OR TRADE SCHOOL CERTIFICATE OR DIPLOMA (BEYOND HIGH SCHOOL LEVEL)"
SAS ALGORITHM FOR DEMENTIA

6 = "6 SOME COLLEGE BUT NO DEGREE"
7 = "7 ASSOCIATE'S DEGREE"
8 = "8 BACHELOR'S DEGREE"
9 = "9 MASTER'S, PROFESSIONAL, OR DOCTORAL DEGREE"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'

; VALUE W000046W
1 = "1 WHITE/CAUCASIAN"
2 = "2 BLACK/AFRICAN AMERICAN"
3 = "3 AMERICAN INDIAN/ALASKA NATIVE"
4 = "4 ASIAN"
5 = "5 NATIVE HAWAIIAN/PACIFIC ISLANDER"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'

; VALUE W000047W
1 = "1 YES"
2 = "2 NO"
3 = "3 RETIRED/DON'T WORK ANYMORE"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'

; VALUE W000048W
1 = "1 YES, LOOKING FOR A JOB"
2 = "2 YES, ON LAYOFF"
3 = "3 NO"
4 = "4 RETIRED/DON'T WORK ANYMORE"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
SAS ALGORITHM FOR DEMENTIA

;

VALUE W000049W
  1 = "1 DAYTIME"
  2 = "2 SOME OTHER SCHEDULE"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'

;

VALUE W000050W
  1 = "1 ENTER NUMBER OF HOURS"
  2 = "2 ENTER NUMBER OF DAYS"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'

;

VALUE W000051W
  1 = "1 8-HOUR DAYS"
  2 = "2 SOMETHING LESS"
  3 = "3 SOMETHING MORE"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'

;

VALUE W000052W
  1 = "1 ENTER OCCUPATION"
  2 = "2 CURRENT OCCUPATION SAME"
  97 = "97 NEVER WORKED ENTIRE LIFE"
  98 = "98 HOMEMAKER/RAISED CHILDREN/WORKED IN THE HOME"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'

;
SAS ALGORITHM FOR DEMENTIA

VALUE W000053W
  1 = "1 MEDICARE"
  2 = "2 MEDICAID"
  3 = "3 PRIVATE HEALTH INSURANCE"
  4 = "4 TRICARE/CHAMPVA"
91 = "91 OTHER (SPECIFY)"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
  7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
;

VALUE W000054W
  1 = "1 LESS THAN"
  2 = "2 MORE THAN"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
  7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
;

VALUE W000055W
  1 = "1 MORE THAN $1,000"
  2 = "2 LESS THAN $1,000"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
  7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
;

VALUE W000056W
  1 = "1 MORE THAN $500"
  2 = "2 LESS THAN $500"
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
  7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
;

VALUE W000057W
  1 = '1 SP interview at 2017 NHATS & alive at NSOC'
  2 = '2 SP 2016 LML'
  3 = '3 SP 2017 LML'
4 = '4 SP interview at 2017 & deceased at NSOC'
5 = '5 SP interview at 2017 & more than 1 caregiver & at least 1 caregiver reports SP deceased at NSOC'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
;
VALUE W000059W
1 = '1 CG eligible for cross-sectional sample'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
;
VALUE W000058W
1 = '1 SP has eligible caregiver'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
;
VALUE W000060W
1 = '1 Eligible and interviewed'
2 = '2 Eligible and not interviewed phone number provided'
3 = '3 Eligible and not interviewed SP refused'
4 = '4 Eligible and not interviewed other'
5 = '5 eligible and not fielded for NSOC not present in R5 or R7'
6 = '6 >5 caregivers and not sampled'
7 = '7 Named by SP but Ineligible'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'
;
VALUE W000061W
1 = '1 Helper eligible for cross-sectional NSOC'
-1 = '-1 Inapplicable'
;
VALUE W000062W
1 = '1 NSOC Interview Complete'
-1 = '-1 Inapplicable'
;
VALUE W000063W
1 = '1 OP named as helper in NHATS interview'
-1 = '-1 Inapplicable'
;
VALUE W000064W
1 = '1 SP eligible for cross-sectional NSOC'
-1 = '-1 Ineligible'
;
VALUE OCC_CODE
1 = '1 Management Occupations: 0010-0430'
2 = '2 Business and Financial Operations Occupations: 0500-0950'
3 = '3 Computer and mathematical occupations: 1000-1240'
4 = '4 Architecture and Engineering Occupations: 1300-1560'
5 = '5 Life, Physical, and Social Science Occupations: 1600-1965'
SAS ALGORITHM FOR DEMENTIA

6 = '6 Community and Social Service Occupations: 2000-2060'
7 = '7 Legal Occupations: 2100-2160'
8 = '8 Education, Training, and Library Occupations: 2200-2550'
9 = '9 Arts, Design, Entertainment, Sports, and Media Occupations: 2600-2960'
10 = '10 Healthcare Practitioners and Technical Occupations: 3000-3540'
11 = '11 Healthcare Support Occupations: 3600-3655'
12 = '12 Protective Service Occupations: 3700-3955'
13 = '13 Food Preparation and Serving Related Occupations: 4000-4160'
14 = '14 Building and Grounds Cleaning and Maintenance Occupations: 4200-4250'
15 = '15 Personal Care and Service Occupations: 4300-4650'
16 = '16 Sales and Related Occupations: 4700-4965'
17 = '17 Office and Administrative Support Occupations: 5000-5940'
18 = '18 Farming, Fishing, and Forestry Occupations: 6000-6130'
19 = '19 Construction and Extraction Occupations: 6200-6940'
20 = '20 Installation, Maintenance, and Repair Occupations: 7000-7630'
21 = '21 Production Occupations: 7700-8965'
22 = '22 Transportation and Material Moving Occupations: 9000-9750'
23 = '23 Military Specific Occupations: 9800-9830'
24 = '24 No current occ (Unemployed, no work in the last 5 years, never worked): 9920'
25 = '25 Blank field'
26 = '26 Code did not match'
94 = '94 Uncodable'
95 = '95 Never Worked Entire Life'
96 = '96 Homemaker/Raised Children'
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing'

value OCC_SI /*with categories for distribution checking*/
11 = '11 Agriculture, Forestry, Fishing and Hunting'
21 = '21 Mining, Quarrying, and Oil and Gas Extraction'
22 = '22 Utilities'
23 = '23 Construction'
31 = '31-33 Manufacturing'
32 = '31-33 Manufacturing'
33 = '31-33 Manufacturing'
42 = '42 Wholesale Trade'
44 = '44-45 Retail Trade'
45 = '44-45 Retail Trade'
48 = '48-49 Transportation and Warehousing'
49 = '48-49 Transportation and Warehousing'
51 = '51 Information'
52 = '52 Finance and Insurance'
53 = '53 Real Estate and Rental and Leasing'
54 = '54 Professional, Scientific, and Technical Services'
55 = '55 Management of Companies and Enterprises'
56 = '56 Administrative and Support and Waste Management and Remediation Services'
61 = '61 Educational Services'
SAS ALGORITHM FOR DEMENTIA

62 = '62 Health Care and Social Assistance'
71 = '71 Arts, Entertainment, and Recreation'
72 = '72 Accommodation and Food Services'
81 = '81 Other Services (except Public Administration)'
92 = '92 Public Administration'
94 = "94 Uncodeable"
99 = '99 None'
-2 = '-2 Helped last month, SP alive'
-3 = '-3 Helped last month of life, SP deceased'
-4 = '-4 Did not help last month or in last month of life'
-7 = '-7 RF'
-8 = '-8 DK'
-1 = '-1 Inapplicable'
-9 = '-9 Missing';
VALUE inc7imfa
  -4 = "-4 Did not help last month or in last month of life"
  1 = "1 Reported in NSOC III"
  2 = "2 Reported in NHATS R7 (Spouse/partner of SP)"
  3 = "3 Imputed in NSOC III"
  4 = "4 Imputed in NHATS R7 (Spouse/partner of SP)";
RUN;

/* Import NSOC data sets*/
%LET filepath10=C:\UB\Projects\2019\Suzanne Sullivan\NHATS project\Sensitive Data Files\Round 1\NHATS Round 1 NSOC Files\SAS;
%LET filepath11=C:\UB\Projects\2019\Suzanne Sullivan\NHATS project\Sensitive Data Files\Round 2\NHATS Round 2 NSOC Files\SAS;
%LET filepath12=C:\UB\Projects\2019\Suzanne Sullivan\NHATS project\Sensitive Data Files\Round 3\NHATS Round 3 NSOC Files\SAS;
%LET filepath13=C:\UB\Projects\2019\Suzanne Sullivan\NHATS project\Sensitive Data Files\Round 4\NHATS Round 4 NSOC Files\SAS;
%LET filepath14=C:\UB\Projects\2019\Suzanne Sullivan\NHATS project\Sensitive Data Files\Round 5\NHATS Round 5 NSOC Files\SAS;
%LET filepath15=C:\UB\Projects\2019\Suzanne Sullivan\NHATS project\Sensitive Data Files\Round 6\NHATS Round 6 NSOC Files\SAS;
%LET filepath16=C:\UB\Projects\2019\Suzanne Sullivan\NHATS project\Sensitive Data Files\Round 7\NHATS Round 7 NSOC Files\Cross-Sectional File\SAS;
%LET filepath17=C:\UB\Projects\2019\Suzanne Sullivan\NHATS project\Sensitive Data Files\Round 8\NHATS Round 8 NSOC Files\SAS;
%LET filepath18=C:\UB\Projects\2019\Suzanne Sullivan\NHATS project\Sensitive Data Files\Round 9\NHATS Round 9 NSOC Files\SAS;

DATA NSOCR1;
  SET "&filepath10\NSOC_Round_1_File_V3";
RUN;

DATA NSOCR5;
  SET "&filepath14\NSOC_Round_5_File_V4";
RUN;

DATA NSOCR7;
  SET "&filepath16\NSOC_R7_Crss_File_V2";
RUN;
/*Sort data sets   */
SAS ALGORITHM FOR DEMENTIA

PROC SORT DATA = NSOCR1;
   BY SPID OPID;
RUN;

PROC SORT DATA = NSOCR5;
   BY SPID OPID;
RUN;

PROC SORT DATA = NSOCR7;
   BY SPID OPID;
RUN;

DATA NSOCR1;
   SET NSOCR1;
   OPIDR1=OPID;
RUN;

DATA NSOCR5;
   SET NSOCR5;
   OPIDR5=OPID;
RUN;

DATA NSOCR7;
   SET NSOCR7;
   OPIDR7=OPID;
RUN;

DATA NSOCR_R1_R5_R7;
   MERGE NSOCR1 NSOCR5 NSOCR7;
   BY SPID OPID;
RUN;

DATA NSOCR_R1_R5_R7_simple;
   SET NSOCR_R1_R5_R7;
   Cluster = 2;
   IF SPID <= 10012411 THEN Cluster = 1;
   KEEP SPID OPID OPIDR1 OPIDR5 OPIDR7 ;
RUN;

proc export data= NSOCR_R1_R5_R7_simple
   outfile= "C:\UB\ProjeCts\2019\Suzanne Sullivan\R03 project\Analysis 6-15-21\NSOC_R1_R5_R7_simple.sav";
run;

DATA NSOCR_R1_R5_R7 (drop=i);
   SET NSOCR_R1_R5_R7;
   array OPID_call{*} OPIDR1 OPIDR5 OPIDR7;
   array OPID_count{*} OPIDR1 OPIDR5 OPIDR7;
   DO i = 1 to dim(OPID_call);
      OPID_count(i) = OPID_call(i);
SAS ALGORITHM FOR DEMENTIA

IF OPID_call{i} ^= . THEN OPID_count{i} = 1; /* meaning interviewed */
IF OPID_call{i} = . THEN OPID_count{i} = 0;
OPID_count_sum = sum(of OPID_count{*});
END;
cdchlphrsdy_sum= sum(cdc1hlphrsdy, cdc5hlphrsdy, cdc7hlphrsdy);
OPID_count_cdchlphrsdy_sum=sum(OPID_count_sum,cdchlphrsdy_sum);
RUN;

DATA NSOC_R1_R5_R7_simple_1;
SET NSOC_R1_R5_R7;
KEEP SPID OPID OPIDR1 OPIDR5 OPIDR7 OPID_count_sum cdc1hlphrsdy cdc5hlphrsdy cdc7hlphrsdy cdchlphrsdy_sum OPID_count_cdchlphrsdy_sum;
RUN;

proc export data= NSOC_R1_R5_R7_simple_1
  outfile = "C:\UB\Projects\2019\Suzanne Sullivan\R03 project\Analysis 6-15-21\NSOC_R1_R5_R7_simple_1.sav";
run;

PROC SORT DATA=NSOC_R1_R5_R7 OUT=NSOC_R1_R5_R7;
  BY SPID OPID_count_sum cdchlphrsdy_sum;
RUN;

DATA NSOC_R1_R5_R7_simple_2;
SET NSOC_R1_R5_R7;
KEEP SPID OPID OPIDR1 OPIDR5 OPIDR7 OPID_count_sum cdc1hlphrsdy cdc5hlphrsdy cdc7hlphrsdy cdchlphrsdy_sum OPID_count_cdchlphrsdy_sum;
RUN;

proc export data= NSOC_R1_R5_R7_simple_2
  outfile = "C:\UB\Projects\2019\Suzanne Sullivan\R03 project\Analysis 6-15-21\NSOC_R1_R5_R7_simple_2.sav";
run;

DATA NSOC_R1_R5_R7_simple_061521;
SET NSOC_R1_R5_R7;
BY SPID;
IF last.SPID;
Cluster = 2;
IF SPID <= 10012411 THEN Cluster = 1;
OPID_interview = OPID;
KEEP SPID OPID OPID_interview Cluster;
RUN;

proc export data= NSOC_R1_R5_R7_simple_061521
  outfile = "C:\UB\Projects\2019\Suzanne Sullivan\R03 project\Analysis 6-15-21\NSOC_R1_R5_R7_simple_061521.sav";
run;