```
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NOTE: SAS (r) Proprietary Software Release 8.2 (TS2M0)
      Licensed to AGENCY FOR HEALTHCARE RESEARCH & QUALITY, Site 0040776001.
NOTE: This session is executing on the WIN_PRO  platform.




1          options ls=120 ps=79 nodate;
2          ods noproctitle;
3          /********************************************************************************\
4          Program:      c:\meps\prog\Example_L4.sas
5
6          Description:  This example shows how to:
7                        (1) Identify persons with specific condition(s)
8                        (2) Subset condition file to person level
9                        (3) Make one variable from five variables
10                       (4) Use SUDAAN to calculate standard errors
11
12         Input Files:  c:\meps\data\h61.sas7bdat (2001 Conditions)
13                       c:\meps\data\h60.sas7bdat (2001 Full-Year Persons)
14         \********************************************************************************/
15
16         libname hc 'c:\meps\data';
NOTE: Libref HC was successfully assigned as follows:
      Engine:        V8
      Physical Name: c:\meps\data
17
18         title 'AHRQ MEPS DATA USERS WORKSHOP (LINKING) -- NOV/DEC 2004';
19         title2 'Link 2001 Household File and 2001 Conditions File';
20
21         proc format;
22            value ovr  1-4='1-4';
NOTE: Format OVR has been output.
23            value overall
24               1='1 Very Serious'
25               2='2 Somewhat Serious'
26               3='3 Not Very Serious'
27               4='4 Not at All'
28               5='5 Missing'
29               6='6 Not Have Asthma';
NOTE: Format OVERALL has been output.
30            value asthma
31               1='1 Has Asthma'
32               2='2 No Asthma';
NOTE: Format ASTHMA has been output.
33            value agecat  1='1. 0-17'  2='2. 18+';
NOTE: Format AGECAT has been output.
34         run;




35
36                    /* Identify persons with asthma */
37         title3 'Persons with Asthma';
38         data;   set hc.h61(where=(icd9codx='493') keep=dupersid panel01 condrn icd9codx
39           ovrall1-ovrall5);
40         run;

NOTE: There were 1695 observations read from the data set HC.H61.
```

```
        WHERE icd9codx='493';
NOTE: The data set WORK.DATA1 has 1695 observations and 9 variables.


41
42                   /* Keep first-reported asthma record for person */
43         proc sort data=_last_;   by dupersid condrn;   run;

NOTE: There were 1695 observations read from the data set WORK.DATA1.
NOTE: The data set WORK.DATA1 has 1695 observations and 9 variables.


44         data;   set _last_;   by dupersid;   if first.dupersid;   run;

NOTE: There were 1695 observations read from the data set WORK.DATA1.
NOTE: The data set WORK.DATA2 has 1644 observations and 9 variables.


45
46         proc freq;   tables
47           panel01*condrn*ovrall1*ovrall2*ovrall3*ovrall4*ovrall5/list missing;
48           format  ovrall1-ovrall5 ovr.;
```

```
49          run;
```

NOTE: There were 1644 observations read from the data set WORK.DATA2.
NOTE: The PROCEDURE FREQ printed page 1.

```
50
51                     /* Assign first-reported OVRALLi to OVERALL */
52          data asthma;   set _last_;   by dupersid;
53            if ovrall1 > -1 then overall = ovrall1;
54              else if ovrall2 > -1 then overall = ovrall2;
55              else if ovrall3 > -1 then overall = ovrall3;
56              else if ovrall4 > -1 then overall = ovrall4;
57              else if ovrall5 > -1 then overall = ovrall5;
58            if overall=. then overall=5;
59          run;
```

NOTE: There were 1644 observations read from the data set WORK.DATA2.
NOTE: The data set WORK.ASTHMA has 1644 observations and 10 variables.

```
60
61          proc freq;    tables
62            overall
63            overall*ovrall1*ovrall2*ovrall3*ovrall4*ovrall5/list missing;
64            format  ovrall1-ovrall5 ovr.  overall overall.;
65          run;
```

NOTE: There were 1644 observations read from the data set WORK.ASTHMA.
NOTE: The PROCEDURE FREQ printed pages 2-3.

```
66
67          title3 'All Persons (with Positive Weight)';
68          data pers;    merge
69            hc.h60(keep=dupersid perwt01f varstr01 varpsu01 age31x age42x age53x)
70            asthma(in=a drop=panel01 condrn icd9codx ovrall1-ovrall5);   by dupersid;
71            if perwt01f > 0;
72            if a then asthma=1;   else asthma=2;
73            if overall=. then overall=6;

74            if age53x ge 0 then age=age53x;
75              else if age42x ge 0 then age=age42x;
76              else if age31x ge 0 then age=age31x;
77            if  0 le age < 18 then agecat=1;
78              else if age ge 18 then agecat=2;
79            drop age31x age42x age53x;
80            label
81              overall='How Asthma Affects Overall Health'
82              asthma ='1 if P Has Asthma'
83              agecat ='Age 0-17, 18+';
84          run;
```

NOTE: There were 33556 observations read from the data set HC.H60.
NOTE: There were 1644 observations read from the data set WORK.ASTHMA.
NOTE: The data set WORK.PERS has 32122 observations and 8 variables.

```
85          proc sort;    by varstr01 varpsu01;    run;

NOTE: There were 32122 observations read from the data set WORK.PERS.
NOTE: The data set WORK.PERS has 32122 observations and 8 variables.

86
87          proc freq;    tables
88            asthma (asthma overall)*agecat/missing;
89            format  asthma asthma.  overall overall.  agecat agecat.;
90          run;

NOTE: There were 32122 observations read from the data set WORK.PERS.
NOTE: The PROCEDURE FREQ printed page 4.

91
92                  /* Output on asthma */
93          proc crosstab data=pers filetype=sas design=wr notot norow;
94            nest  varstr01 varpsu01/missunit;
95            weight  perwt01f;
96            subgroup  asthma;
97            levels  2;
98            tables  asthma;
99            print / style=nchs wsumfmt=f15.0 nodate notime;
100           rformat  asthma asthma.;
```

3   The SAS System

101   run;

Opened SAS data file PERS for reading.

NOTE: There were 32122 observations read from the data set WORK.PERS.
NOTE: The PROCEDURE CROSSTAB printed pages 5-6.

102
103   /* How asthma affects health */
104   proc crosstab data=pers filetype=sas design=wr notot norow;
105   nest varstr01 varpsu01/missunit;
106   weight perwt01f;
107   subgroup overall agecat;
108   levels 5 2;
109   subpopn asthma=1;
110   tables overall overall*agecat;
111   print / style=nchs wsumfmt=f15.0 nodate notime;
112   rformat overall overall.;
113   rformat agecat agecat.;
114   run;

Opened SAS data file PERS for reading.

NOTE: There were 32122 observations read from the data set WORK.PERS.
NOTE: The PROCEDURE CROSSTAB printed pages 7-9.

NOTE: SAS Institute Inc., SAS Campus Drive, Cary, NC USA 27513-2414

Link 2001 Household File and 2001 Conditions File
Persons with Asthma

PANEL01	CONDRN	OVRALL1	OVRALL2	OVRALL3	OVRALL4	OVRALL5	Frequency	Percent	Cumulative Frequency	Cumulative Percent
5	1	-1	-1	-1	-1	-1	73	4.44	73	4.44
5	1	-1	-1	-1	-1	1-4	10	0.61	83	5.05
5	1	-1	-1	-1	1-4	-1	14	0.85	97	5.90
5	1	-1	-1	-1	1-4	1-4	14	0.85	111	6.75
5	1	-1	-1	1-4	-1	-1	17	1.03	128	7.79
5	1	-1	-1	1-4	-1	1-4	9	0.55	137	8.33
5	1	-1	-1	1-4	1-4	-1	23	1.40	160	9.73
5	1	-1	-1	1-4	1-4	1-4	88	5.35	248	15.09
5	2	-1	-1	-1	-9	-1	1	0.06	249	15.15
5	2	-1	-1	-1	-1	-1	40	2.43	289	17.58
5	2	-1	-1	-1	-1	1-4	9	0.55	298	18.13
5	2	-1	-1	-1	1-4	-1	1	0.06	299	18.19
5	2	-1	-1	-1	1-4	1-4	5	0.30	304	18.49
5	2	-1	-1	1-4	-1	-1	2	0.12	306	18.61
5	2	-1	-1	1-4	-1	1-4	1	0.06	307	18.67
5	2	-1	-1	1-4	1-4	-1	9	0.55	316	19.22
5	2	-1	-1	1-4	1-4	1-4	14	0.85	330	20.07
5	3	-1	-1	-9	-1	-1	1	0.06	331	20.13
5	3	-1	-1	-9	-1	1-4	1	0.06	332	20.19
5	3	-1	-1	-1	-1	-1	11	0.67	343	20.86
5	3	-1	-1	1-4	-1	-1	26	1.58	369	22.45
5	3	-1	-1	1-4	-1	1-4	10	0.61	379	23.05
5	3	-1	-1	1-4	1-4	-1	6	0.36	385	23.42
5	3	-1	-1	1-4	1-4	1-4	23	1.40	408	24.82
5	4	-1	-1	-1	-8	-1	1	0.06	409	24.88
5	4	-1	-1	-1	-1	-1	11	0.67	420	25.55
5	4	-1	-1	-1	1-4	-1	23	1.40	443	26.95
5	4	-1	-1	-1	1-4	1-4	26	1.58	469	28.53
5	5	-1	-1	-1	-1	-9	1	0.06	470	28.59
5	5	-1	-1	-1	-1	-1	18	1.09	488	29.68
5	5	-1	-1	-1	-1	1-4	44	2.68	532	32.36
6	1	-9	-1	-1	-1	-1	1	0.06	533	32.42
6	1	-9	1-4	-1	-1	-1	1	0.06	534	32.48
6	1	-9	1-4	1-4	-1	-1	4	0.24	538	32.73
6	1	-1	-1	-1	-1	-1	114	6.93	652	39.66
6	1	1-4	-9	1-4	-1	-1	1	0.06	653	39.72
6	1	1-4	-8	-1	-1	-1	1	0.06	654	39.78
6	1	1-4	-1	-9	-1	-1	3	0.18	657	39.96
6	1	1-4	-1	-8	-1	-1	1	0.06	658	40.02
6	1	1-4	-1	-1	-1	-1	144	8.76	802	48.78
6	1	1-4	-1	1-4	-1	-1	59	3.59	861	52.37
6	1	1-4	1-4	-8	-1	-1	1	0.06	862	52.43
6	1	1-4	1-4	-7	-1	-1	1	0.06	863	52.49
6	1	1-4	1-4	-1	-1	-1	95	5.78	958	58.27
6	1	1-4	1-4	1-4	-1	-1	288	17.52	1246	75.79
6	2	-1	-9	-1	-1	-1	4	0.24	1250	76.03
6	2	-1	-8	-1	-1	-1	2	0.12	1252	76.16
6	2	-1	-1	-1	-1	-1	50	3.04	1302	79.20
6	2	-1	1-4	-9	-1	-1	1	0.06	1303	79.26

6	2	-1	1-4	-1	-1	-1	83	5.05	1386	84.31
6	2	-1	1-4	1-4	-1	-1	90	5.47	1476	89.78
6	3	-1	-1	-9	-1	-1	2	0.12	1478	89.90
6	3	-1	-1	-1	-1	-1	44	2.68	1522	92.58
6	3	-1	-1	1-4	-1	-1	122	7.42	1644	100.00

Link 2001 Household File and 2001 Conditions File
Persons with Asthma

overall	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Very Serious	219	13.32	219	13.32
2 Somewhat Serious	456	27.74	675	41.06
3 Not Very Serious	445	27.07	1120	68.13
4 Not at All	150	9.12	1270	77.25
5 Missing	374	22.75	1644	100.00

overall	OVRALL1	OVRALL2	OVRALL3	OVRALL4	OVRALL5	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 Very Serious	-9	1-4	-1	-1	-1	1	0.06	1	0.06
1 Very Serious	-9	1-4	1-4	-1	-1	2	0.12	3	0.18
1 Very Serious	-1	-1	-1	-1	1-4	8	0.49	11	0.67
1 Very Serious	-1	-1	-1	1-4	-1	5	0.30	16	0.97
1 Very Serious	-1	-1	-1	1-4	1-4	7	0.43	23	1.40
1 Very Serious	-1	-1	1-4	-1	-1	14	0.85	37	2.25
1 Very Serious	-1	-1	1-4	1-4	-1	11	0.67	48	2.92
1 Very Serious	-1	-1	1-4	1-4	1-4	29	1.76	77	4.68
1 Very Serious	-1	1-4	-1	-1	-1	7	0.43	84	5.11
1 Very Serious	-1	1-4	1-4	-1	-1	13	0.79	97	5.90
1 Very Serious	1-4	-1	-1	-1	-1	22	1.34	119	7.24
1 Very Serious	1-4	-1	1-4	-1	-1	8	0.49	127	7.73
1 Very Serious	1-4	1-4	-1	-1	-1	16	0.97	143	8.70
1 Very Serious	1-4	1-4	1-4	-1	-1	76	4.62	219	13.32
2 Somewhat Serious	-9	1-4	1-4	-1	-1	1	0.06	220	13.38
2 Somewhat Serious	-1	-1	-9	-1	1-4	1	0.06	221	13.44
2 Somewhat Serious	-1	-1	-1	-1	1-4	23	1.40	244	14.84
2 Somewhat Serious	-1	-1	-1	1-4	-1	10	0.61	254	15.45
2 Somewhat Serious	-1	-1	-1	1-4	1-4	24	1.46	278	16.91
2 Somewhat Serious	-1	-1	1-4	-1	-1	65	3.95	343	20.86
2 Somewhat Serious	-1	-1	1-4	-1	1-4	6	0.36	349	21.23
2 Somewhat Serious	-1	-1	1-4	1-4	-1	11	0.67	360	21.90
2 Somewhat Serious	-1	-1	1-4	1-4	1-4	49	2.98	409	24.88
2 Somewhat Serious	-1	1-4	-9	-1	-1	1	0.06	410	24.94
2 Somewhat Serious	-1	1-4	-1	-1	-1	15	0.91	425	25.85
2 Somewhat Serious	-1	1-4	1-4	-1	-1	28	1.70	453	27.55
2 Somewhat Serious	1-4	-8	-1	-1	-1	1	0.06	454	27.62
2 Somewhat Serious	1-4	-1	-9	-1	-1	1	0.06	455	27.68
2 Somewhat Serious	1-4	-1	-8	-1	-1	1	0.06	456	27.74
2 Somewhat Serious	1-4	-1	-1	-1	-1	50	3.04	506	30.78
2 Somewhat Serious	1-4	-1	1-4	-1	-1	19	1.16	525	31.93
2 Somewhat Serious	1-4	1-4	-7	-1	-1	1	0.06	526	32.00
2 Somewhat Serious	1-4	1-4	-1	-1	-1	41	2.49	567	34.49
2 Somewhat Serious	1-4	1-4	1-4	-1	-1	108	6.57	675	41.06
3 Not Very Serious	-9	1-4	1-4	-1	-1	1	0.06	676	41.12
3 Not Very Serious	-1	-1	-1	-1	1-4	26	1.58	702	42.70
3 Not Very Serious	-1	-1	-1	1-4	-1	14	0.85	716	43.55
3 Not Very Serious	-1	-1	-1	1-4	1-4	8	0.49	724	44.04
3 Not Very Serious	-1	-1	1-4	-1	-1	72	4.38	796	48.42

3 Not Very Serious	-1	-1	1-4	-1	1-4	9	0.55	805	48.97
3 Not Very Serious	-1	-1	1-4	1-4	-1	13	0.79	818	49.76
3 Not Very Serious	-1	-1	1-4	1-4	1-4	34	2.07	852	51.82
3 Not Very Serious	-1	1-4	-1	-1	-1	48	2.92	900	54.74
3 Not Very Serious	-1	1-4	1-4	-1	-1	38	2.31	938	57.06
3 Not Very Serious	1-4	-9	1-4	-1	-1	1	0.06	939	57.12
3 Not Very Serious	1-4	-1	-9	-1	-1	1	0.06	940	57.18
3 Not Very Serious	1-4	-1	-1	-1	-1	50	3.04	990	60.22
3 Not Very Serious	1-4	-1	1-4	-1	-1	25	1.52	1015	61.74
3 Not Very Serious	1-4	1-4	-1	-1	-1	31	1.89	1046	63.63
3 Not Very Serious	1-4	1-4	1-4	-1	-1	74	4.50	1120	68.13
4 Not at All	-1	-1	-1	-1	1-4	6	0.36	1126	68.49
4 Not at All	-1	-1	-1	1-4	-1	9	0.55	1135	69.04
4 Not at All	-1	-1	-1	1-4	1-4	6	0.36	1141	69.40
4 Not at All	-1	-1	1-4	-1	-1	16	0.97	1157	70.38
4 Not at All	-1	-1	1-4	-1	1-4	5	0.30	1162	70.68
4 Not at All	-1	-1	1-4	1-4	-1	3	0.18	1165	70.86
4 Not at All	-1	-1	1-4	1-4	1-4	13	0.79	1178	71.65
4 Not at All	-1	1-4	-1	-1	-1	13	0.79	1191	72.45
4 Not at All	-1	1-4	1-4	-1	-1	11	0.67	1202	73.11
4 Not at All	1-4	-1	-9	-1	-1	1	0.06	1203	73.18
4 Not at All	1-4	-1	-1	-1	-1	22	1.34	1225	74.51
4 Not at All	1-4	-1	1-4	-1	-1	7	0.43	1232	74.94

Link 2001 Household File and 2001 Conditions File
Persons with Asthma

overall	OVRALL1	OVRALL2	OVRALL3	OVRALL4	OVRALL5	Frequency	Percent	Cumulative Frequency	Cumulative Percent
4 Not at All	1-4	1-4	-8	-1	-1	1	0.06	1233	75.00
4 Not at All	1-4	1-4	-1	-1	-1	7	0.43	1240	75.43
4 Not at All	1-4	1-4	1-4	-1	-1	30	1.82	1270	77.25
5 Missing	-9	-1	-1	-1	-1	1	0.06	1271	77.31
5 Missing	-1	-9	-1	-1	-1	4	0.24	1275	77.55
5 Missing	-1	-8	-1	-1	-1	2	0.12	1277	77.68
5 Missing	-1	-1	-9	-1	-1	3	0.18	1280	77.86
5 Missing	-1	-1	-1	-9	-1	1	0.06	1281	77.92
5 Missing	-1	-1	-1	-8	-1	1	0.06	1282	77.98
5 Missing	-1	-1	-1	-1	-9	1	0.06	1283	78.04
5 Missing	-1	-1	-1	-1	-1	361	21.96	1644	100.00

```
                    1 if P Has Asthma

                                     Cumulative   Cumulative
        asthma     Frequency     Percent    Frequency     Percent
---------------------------------------------------------------
1 Has Asthma       1584        4.93        1584        4.93
2 No Asthma       30538       95.07       32122      100.00
```

```
              Table of asthma by agecat

        asthma(1 if P Has Asthma)
                     agecat(Age 0-17, 18+)
        Frequency    |
        Percent      |
        Row Pct      |
        Col Pct      |1. 0-17 |2. 18+  |  Total
        ------------+--------+--------+
        1 Has Asthma |    638 |    946 |   1584
                     |   1.99 |   2.95 |   4.93
                     |  40.28 |  59.72 |
                     |   6.97 |   4.12 |
        ------------+--------+--------+
        2 No Asthma  |   8519 |  22019 |  30538
                     |  26.52 |  68.55 |  95.07
                     |  27.90 |  72.10 |
                     |  93.03 |  95.88 |
        ------------+--------+--------+
        Total           9157    22965    32122
                        28.51    71.49   100.00
```

```
              Table of overall by agecat

        overall(How Asthma Affects Overall Health)
                     agecat(Age 0-17, 18+)
        Frequency        |
        Percent          |
        Row Pct          |
        Col Pct          |1. 0-17 |2. 18+  |  Total
        ----------------+--------+--------+
        1 Very Serious   |     59 |    153 |    212
                         |   0.18 |   0.48 |   0.66
                         |  27.83 |  72.17 |
                         |   0.64 |   0.67 |
        ----------------+--------+--------+
        2 Somewhat Serio |    183 |    258 |    441
        us               |   0.57 |   0.80 |   1.37
                         |  41.50 |  58.50 |
                         |   2.00 |   1.12 |
        ----------------+--------+--------+
        3 Not Very Serio |    191 |    238 |    429
```

```
us              |   0.59 |   0.74 |    1.34
                |  44.52 |  55.48 |
                |   2.09 |   1.04 |
----------------+--------+--------+
4 Not at All    |     54 |     92 |     146
                |   0.17 |   0.29 |    0.45
                |  36.99 |  63.01 |
                |   0.59 |   0.40 |
----------------+--------+--------+
5 Missing       |    151 |    205 |     356
                |   0.47 |   0.64 |    1.11
                |  42.42 |  57.58 |
                |   1.65 |   0.89 |
----------------+--------+--------+
6 Not Have Asthm|   8519 |  22019 |   30538
a               |  26.52 |  68.55 |   95.07
                |  27.90 |  72.10 |
                |  93.03 |  95.88 |
----------------+--------+--------+
Total               9157    22965     32122
                   28.51    71.49    100.00
```

                         S U D A A N
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                         Release 8.0.1

Number of observations read   : 32122   Weighted count :284247327
Denominator degrees of freedom :   412

Variance Estimation Method: Taylor Series (WR)
by: 1 if P Has Asthma.

----
1 if P Has Asthma
                  Sample   SE   Col   SE Col
                  Size   Weighted Size   Weighted   Percent   Percent
----
Total   32122   284247327   5547456.33 100.00   0.00
1 Has Asthma   1584   13352919   517338.63   4.70   0.14
2 No Asthma   30538   270894408   5235504.11   95.30   0.14

                         S U D A A N
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                            Release 8.0.1

Number of observations read   : 32122   Weighted count :284247327
Observations in subpopulation :   1584   Weighted count: 13352919
Denominator degrees of freedom :   412

```
Variance Estimation Method: Taylor Series (WR)
For Subpopulation: ASTHMA = 1
by: How Asthma Affects Overall Health.


--------------------------------------------------------------------------------
How Asthma Affects
  Overall Health      Sample                     SE          Col        SE Col
                      Size      Weighted Size    Weighted    Percent    Percent
--------------------------------------------------------------------------------
Total                 1584       13352919        517338.63   100.00      0.00
1 Very Serious         212        1586408        124844.38    11.88      0.89
2 Somewhat Serious     441        3743390        236614.66    28.03      1.27
3 Not Very Serious     429        3675241        228900.38    27.52      1.39

4 Not at All           146        1267870        133836.21     9.50      0.93
5 Missing              356        3080010        220302.46    23.07      1.36
--------------------------------------------------------------------------------
```

Variance Estimation Method: Taylor Series (WR)
For Subpopulation: ASTHMA = 1
by: How Asthma Affects Overall Health, Age 0-17, 18+.

```
--------------------------------------------------------------------------------
How Asthma Affects
  Overall Health      Sample                      SE          Col       SE Col
   Age 0-17, 18+      Size      Weighted Size   Weighted    Percent     Percent
--------------------------------------------------------------------------------
Total
   Total              1584       13352919       517338.63    100.00      0.00
   1. 0-17             638        4915235       283712.67    100.00      0.00
   2. 18+              946        8437683       385883.91    100.00      0.00
1 Very Serious
   Total               212        1586408       124844.38     11.88      0.89
   1. 0-17              59         362945        53864.21      7.38      1.09
   2. 18+              153        1223463       114693.22     14.50      1.24
2 Somewhat Serious
   Total               441        3743390       236614.66     28.03      1.27
   1. 0-17             183        1398136       124503.56     28.44      1.90
   2. 18+              258        2345254       178058.01     27.79      1.56
3 Not Very Serious
   Total               429        3675241       228900.38     27.52      1.39
   1. 0-17             191        1514348       135810.12     30.81      2.21
   2. 18+              238        2160893       170910.52     25.61      1.72
4 Not at All
   Total               146        1267870       133836.21      9.50      0.93
   1. 0-17              54         419114        74586.24      8.53      1.36
   2. 18+               92         848756       109466.56     10.06      1.21
5 Missing
   Total               356        3080010       220302.46     23.07      1.36
   1. 0-17             151        1220693       124876.98     24.83      2.05
   2. 18+              205        1859317       169381.22     22.04      1.71
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```