



## APPENDIX

## 3

## Raw Data and DATA Steps

---

<i>Overview</i>	1493
<i>CENSUS</i>	1493
<i>CHARITY</i>	1494
<i>CUSTRESP</i>	1496
<i>DJIA</i>	1499
<i>EDUC</i>	1500
<i>EMPDATA</i>	1501
<i>ENERGY</i>	1503
<i>GROC</i>	1504
<i>MATCH_11</i>	1504
<i>PROCLIB.DELAY</i>	1506
<i>PROCLIB.EMP95</i>	1507
<i>PROCLIB.EMP96</i>	1508
<i>PROCLIB.INTERNAT</i>	1509
<i>PROCLIB.LAKES</i>	1509
<i>PROCLIB.MARCH</i>	1510
<i>PROCLIB.PAYLIST2</i>	1511
<i>PROCLIB.PAYROLL</i>	1512
<i>PROCLIB.PAYROLL2</i>	1515
<i>PROCLIB.SCHEDULE</i>	1515
<i>PROCLIB.STAFF</i>	1518
<i>PROCLIB.SUPERV</i>	1521
<i>RADIO</i>	1522
<i>STATEPOP</i>	1534

---

### Overview

The programs for examples in this document generally show you how to create the data sets that are used. Some examples show only partial data. For these examples, the complete data are shown in this appendix.

---

### CENSUS

```
data census;
  input Density CrimeRate State $ 14-27 PostalCode $ 29-30;
  datalines;
```

263.3	4575.3	Ohio	OH
62.1	7017.1	Washington	WA
103.4	5161.9	South Carolina	SC
53.4	3438.6	Mississippi	MS
180.0	8503.2	Florida	FL
80.8	2190.7	West Virginia	WV
428.7	5477.6	Maryland	MD
71.2	4707.5	Missouri	MO
43.9	4245.2	Arkansas	AR
7.3	6371.4	Nevada	NV
264.3	3163.2	Pennsylvania	PA
11.5	4156.3	Idaho	ID
44.1	6025.6	Oklahoma	OK
51.2	4615.8	Minnesota	MN
55.2	4271.2	Vermont	VT
27.4	6969.9	Oregon	OR
205.3	5416.5	Illinois	IL
94.1	5792.0	Georgia	GA
9.1	2678.0	South Dakota	SD
9.4	2833.0	North Dakota	ND
102.4	3371.7	New Hampshire	NH
54.3	7722.4	Texas	TX
76.6	4451.4	Alabama	AL
307.6	4938.8	Delaware	DE
151.4	6506.4	California	CA
111.6	4665.6	Tennessee	TN
120.4	4649.9	North Carolina	NC
			;

---

## CHARITY

```

data Charity;
  input School $ 1-7 Year 9-12 Name $ 14-20 MoneyRaised 22-26
        HoursVolunteered 28-29;
  datalines;
Monroe 1992 Allison 31.65 19
Monroe 1992 Barry 23.76 16
Monroe 1992 Candace 21.11 5
Monroe 1992 Danny 6.89 23
Monroe 1992 Edward 53.76 31
Monroe 1992 Fiona 48.55 13
Monroe 1992 Gert 24.00 16
Monroe 1992 Harold 27.55 17
Monroe 1992 Ima 15.98 9
Monroe 1992 Jack 20.00 23
Monroe 1992 Katie 22.11 2
Monroe 1992 Lisa 18.34 17
Monroe 1992 Tonya 55.16 40
Monroe 1992 Max 26.77 34
Monroe 1992 Ned 28.43 22
Monroe 1992 Opal 32.66 14

```

Monroe	1993	Patsy	18.33	18
Monroe	1993	Quentin	16.89	15
Monroe	1993	Randall	12.98	17
Monroe	1993	Sam	15.88	5
Monroe	1993	Tyra	21.88	23
Monroe	1993	Myrtle	47.33	26
Monroe	1993	Frank	41.11	22
Monroe	1993	Cameron	65.44	14
Monroe	1993	Vern	17.89	11
Monroe	1993	Wendell	23.00	10
Monroe	1993	Bob	26.88	6
Monroe	1993	Leah	28.99	23
Monroe	1994	Becky	30.33	26
Monroe	1994	Sally	35.75	27
Monroe	1994	Edgar	27.11	12
Monroe	1994	Dawson	17.24	16
Monroe	1994	Lou	5.12	16
Monroe	1994	Damien	18.74	17
Monroe	1994	Mona	27.43	7
Monroe	1994	Della	56.78	15
Monroe	1994	Monique	29.88	19
Monroe	1994	Carl	31.12	25
Monroe	1994	Reba	35.16	22
Monroe	1994	Dax	27.65	23
Monroe	1994	Gary	23.11	15
Monroe	1994	Suzie	26.65	11
Monroe	1994	Benito	47.44	18
Monroe	1994	Thomas	21.99	23
Monroe	1994	Annie	24.99	27
Monroe	1994	Paul	27.98	22
Monroe	1994	Alex	24.00	16
Monroe	1994	Lauren	15.00	17
Monroe	1994	Julia	12.98	15
Monroe	1994	Keith	11.89	19
Monroe	1994	Jackie	26.88	22
Monroe	1994	Pablo	13.98	28
Monroe	1994	L.T.	56.87	33
Monroe	1994	Willard	78.65	24
Monroe	1994	Kathy	32.88	11
Monroe	1994	Abby	35.88	10
Kennedy	1992	Arturo	34.98	14
Kennedy	1992	Grace	27.55	25
Kennedy	1992	Winston	23.88	22
Kennedy	1992	Vince	12.88	21
Kennedy	1992	Claude	15.62	5
Kennedy	1992	Mary	28.99	34
Kennedy	1992	Abner	25.89	22
Kennedy	1992	Jay	35.89	35
Kennedy	1992	Alicia	28.77	26
Kennedy	1992	Freddy	29.00	27
Kennedy	1992	Eloise	31.67	25
Kennedy	1992	Jenny	43.89	22
Kennedy	1992	Thelma	52.63	21
Kennedy	1992	Tina	19.67	21

Kennedy 1992 Eric	24.89	12
Kennedy 1993 Bubba	37.88	12
Kennedy 1993 G.L.	25.89	21
Kennedy 1993 Bert	28.89	21
Kennedy 1993 Clay	26.44	21
Kennedy 1993 Leeann	27.17	17
Kennedy 1993 Georgia	38.90	11
Kennedy 1993 Bill	42.23	25
Kennedy 1993 Holly	18.67	27
Kennedy 1993 Benny	19.09	25
Kennedy 1993 Cammie	28.77	28
Kennedy 1993 Amy	27.08	31
Kennedy 1993 Doris	22.22	24
Kennedy 1993 Robbie	19.80	24
Kennedy 1993 Ted	27.07	25
Kennedy 1993 Sarah	24.44	12
Kennedy 1993 Megan	28.89	11
Kennedy 1993 Jeff	31.11	12
Kennedy 1993 Taz	30.55	11
Kennedy 1993 George	27.56	11
Kennedy 1993 Heather	38.67	15
Kennedy 1994 Nancy	29.90	26
Kennedy 1994 Rusty	30.55	28
Kennedy 1994 Mimi	37.67	22
Kennedy 1994 J.C.	23.33	27
Kennedy 1994 Clark	27.90	25
Kennedy 1994 Rudy	27.78	23
Kennedy 1994 Samuel	34.44	18
Kennedy 1994 Forrest	28.89	26
Kennedy 1994 Luther	72.22	24
Kennedy 1994 Trey	6.78	18
Kennedy 1994 Albert	23.33	19
Kennedy 1994 Che-Min	26.66	33
Kennedy 1994 Preston	32.22	23
Kennedy 1994 Larry	40.00	26
Kennedy 1994 Anton	35.99	28
Kennedy 1994 Sid	27.45	25
Kennedy 1994 Will	28.88	21
Kennedy 1994 Morty	34.44	25

;

---

## CUSTRESP

```

data customer_response;
  input Customer Factor1-Factor4 Source1-Source3
        Quality1-Quality3;
  datalines;
1 . . 1 1 1 1 . 1 . .
2 1 1 . 1 1 1 . 1 1 .
3 . . 1 1 1 1 . . . .
4 1 1 . 1 . 1 . . . 1

```

```
5 . 1 . 1 1 . . . . 1
6 . 1 . 1 1 . . . . .
7 . 1 . 1 1 . . 1 . .
8 1 . . 1 1 1 . 1 1 .
9 1 1 . 1 1 . . . . 1
10 1 . . 1 1 1 . 1 1 .
11 1 1 1 1 . 1 . 1 1 1
12 1 1 . 1 1 1 . . . .
13 1 1 . 1 . 1 . 1 1 .
14 1 1 . 1 1 1 . . . .
15 1 1 . 1 . 1 . 1 1 1
16 1 . . 1 1 . . 1 . .
17 1 1 . 1 1 1 . . 1 .
18 1 1 . 1 1 1 1 . . 1
19 . 1 . 1 1 1 1 . 1 .
20 1 . . 1 1 1 . 1 1 1
21 . . . 1 1 1 . 1 . .
22 . . . 1 1 1 . 1 1 .
23 1 . . 1 . . . . . 1
24 . 1 . 1 1 . . 1 . 1
25 1 1 . 1 1 . . . 1 1
26 1 1 . 1 1 . . 1 . .
27 1 . . 1 1 . . . 1 .
28 1 1 . 1 . . . 1 1 1
29 1 . . 1 1 1 . 1 . 1
30 1 . 1 1 1 . . 1 1 .
31 . . . 1 1 . . 1 1 .
32 1 1 1 1 1 . . 1 1 1
33 1 . . 1 1 . . 1 . 1
34 . . 1 1 . . . 1 1 .
35 1 1 1 1 1 . 1 1 . .
36 1 1 1 1 . 1 . 1 . .
37 1 1 . 1 . . . 1 . .
38 . . . 1 1 1 . 1 . .
39 1 1 . 1 1 . . 1 . 1
40 1 . . 1 . . 1 1 . 1
41 1 . . 1 1 1 1 1 . 1
42 1 1 1 1 . . 1 1 . .
43 1 . . 1 1 1 . 1 . .
44 1 . 1 1 . 1 . 1 . 1
45 . . . 1 . . 1 . . 1
46 . . . 1 1 . . . 1 .
47 1 1 . 1 . . 1 1 . .
48 1 . 1 1 1 . 1 1 . .
49 . . 1 1 1 1 . 1 . 1
50 . 1 . 1 1 . . 1 1 .
51 1 . 1 1 1 1 . . . .
52 1 1 1 1 1 1 . 1 . .
53 . 1 1 1 . 1 . 1 1 1
54 1 . . 1 1 . . 1 1 .
55 1 1 . 1 1 1 . 1 . .
56 1 . . 1 1 . . 1 1 .
57 1 1 . 1 1 . 1 . . 1
58 . 1 . 1 . 1 . . 1 1
```

59 1 1 1 1 . . 1 1 1 .  
 60 . 1 1 1 1 1 . . 1 1  
 61 1 1 1 1 1 1 . 1 . .  
 62 1 1 . 1 1 . . 1 1 .  
 63 . . . 1 . . . 1 1 1  
 64 1 . . 1 1 1 . 1 . .  
 65 1 . . 1 1 1 . 1 . .  
 66 1 . . 1 1 1 1 1 1 .  
 67 1 1 . 1 1 1 . 1 1 .  
 68 1 1 . 1 1 1 . 1 1 .  
 69 1 1 . 1 1 . 1 . . .  
 70 . . . 1 1 1 . 1 . .  
 71 1 . . 1 1 . 1 . . 1  
 72 1 . 1 1 1 1 . . 1 .  
 73 1 1 . 1 . 1 . 1 1 .  
 74 1 1 1 1 1 1 . 1 . .  
 75 . 1 . 1 1 1 . . 1 .  
 76 1 1 . 1 1 1 . 1 1 1  
 77 . . . 1 1 1 . . . .  
 78 1 1 1 1 1 1 . 1 1 .  
 79 1 . . 1 1 1 . 1 1 .  
 80 1 1 1 1 1 . 1 1 . 1  
 81 1 1 . 1 1 1 1 1 1 .  
 82 . . . 1 1 1 1 . . .  
 83 1 1 . 1 1 1 . 1 1 .  
 84 1 . . 1 1 . . 1 1 .  
 85 . . . 1 . 1 . 1 . .  
 86 1 . . 1 1 1 . 1 1 1  
 87 1 1 . 1 1 1 . 1 . .  
 88 . . . 1 . 1 . . . .  
 89 1 . . 1 . 1 . . 1 1  
 90 1 1 . 1 1 1 . 1 . 1  
 91 . . . 1 1 . . . 1 .  
 92 1 . . 1 1 1 . 1 1 .  
 93 1 . . 1 1 . . 1 1 .  
 94 1 . . 1 1 1 1 1 . .  
 95 1 . . 1 . 1 1 1 1 .  
 96 1 . 1 1 1 1 . . 1 .  
 97 1 1 . 1 1 . . . 1 .  
 98 1 . 1 1 1 1 1 1 . .  
 99 1 1 . 1 1 1 1 1 1 .  
 100 1 . 1 1 1 . . . 1 1  
 101 1 . 1 1 1 1 . . . .  
 102 1 . . 1 1 . 1 1 . .  
 103 1 1 . 1 1 1 . 1 . .  
 104 . . . 1 1 1 . 1 1 1  
 105 1 . 1 1 1 . . 1 . 1  
 106 1 1 1 1 1 1 1 1 1 1  
 107 1 1 1 1 . . . 1 . 1  
 108 1 . . 1 . 1 1 1 . .  
 109 . 1 . 1 1 . . 1 1 .  
 110 1 . . 1 . . . . .  
 111 1 . . 1 1 1 . 1 1 .  
 112 1 1 . 1 1 1 . . . 1

```

113 1 1 . 1 1 . 1 1 1 .
114 1 1 . 1 1 . . . . .
115 1 1 . 1 1 . . 1 . .
116 . 1 . 1 1 1 1 1 . .
117 . 1 . 1 1 1 . . . .
118 . 1 1 1 1 . . 1 1 .
119 . . . 1 . . . 1 . .
120 1 1 . 1 . . . . 1 .
;

```

---

## DJIA

```

data djia;
  input Year @7 HighDate date7. High @24 LowDate date7. Low;
  format highdate lowdate date7.;
  datalines;
1954 31DEC54 404.39 11JAN54 279.87
1955 30DEC55 488.40 17JAN55 388.20
1956 06APR56 521.05 23JAN56 462.35
1957 12JUL57 520.77 22OCT57 419.79
1958 31DEC58 583.65 25FEB58 436.89
1959 31DEC59 679.36 09FEB59 574.46
1960 05JAN60 685.47 25OCT60 568.05
1961 13DEC61 734.91 03JAN61 610.25
1962 03JAN62 726.01 26JUN62 535.76
1963 18DEC63 767.21 02JAN63 646.79
1964 18NOV64 891.71 02JAN64 768.08
1965 31DEC65 969.26 28JUN65 840.59
1966 09FEB66 995.15 07OCT66 744.32
1967 25SEP67 943.08 03JAN67 786.41
1968 03DEC68 985.21 21MAR68 825.13
1969 14MAY69 968.85 17DEC69 769.93
1970 29DEC70 842.00 06MAY70 631.16
1971 28APR71 950.82 23NOV71 797.97
1972 11DEC72 1036.27 26JAN72 889.15
1973 11JAN73 1051.70 05DEC73 788.31
1974 13MAR74 891.66 06DEC74 577.60
1975 15JUL75 881.81 02JAN75 632.04
1976 21SEP76 1014.79 02JAN76 858.71
1977 03JAN77 999.75 02NOV77 800.85
1978 08SEP78 907.74 28FEB78 742.12
1979 05OCT79 897.61 07NOV79 796.67
1980 20NOV80 1000.17 21APR80 759.13
1981 27APR81 1024.05 25SEP81 824.01
1982 27DEC82 1070.55 12AUG82 776.92
1983 29NOV83 1287.20 03JAN83 1027.04
1984 06JAN84 1286.64 24JUL84 1086.57
1985 16DEC85 1553.10 04JAN85 1184.96
1986 02DEC86 1955.57 22JAN86 1502.29
1987 25AUG87 2722.42 19OCT87 1738.74
1988 21OCT88 2183.50 20JAN88 1879.14

```

```

1989 09OCT89 2791.41 03JAN89 2144.64
1990 16JUL90 2999.75 11OCT90 2365.10
1991 31DEC91 3168.83 09JAN91 2470.30
1992 01JUN92 3413.21 09OCT92 3136.58
1993 29DEC93 3794.33 20JAN93 3241.95
1994 31JAN94 3978.36 04APR94 3593.35
;

```

---

## EDUC

```

data education;
  input State $14. +1 Code $ DropoutRate Expenditures MathScore Region $;
  label dropoutrate='Dropout Percentage - 1989'
        expenditures='Expenditure Per Pupil - 1989'
        mathscore='8th Grade Math Exam - 1990';
  datalines;
Alabama      AL 22.3 3197 252 SE
Alaska       AK 35.8 7716 . W
Arizona      AZ 31.2 3902 259 W
Arkansas     AR 11.5 3273 256 SE
California   CA 32.7 4121 256 W
Colorado     CO 24.7 4408 267 W
Connecticut CT 16.8 6857 270 NE
Delaware     DE 28.5 5422 261 NE
Florida      FL 38.5 4563 255 SE
Georgia      GA 27.9 3852 258 SE
Hawaii       HI 18.3 4121 251 W
Idaho        ID 21.8 2838 272 W
Illinois     IL 21.5 4906 260 MW
Indiana      IN 13.8 4284 267 MW
Iowa         IA 13.6 4285 278 MW
Kansas       KS 17.9 4443 . MW
Kentucky     KY 32.7 3347 256 SE
Louisiana    LA 43.1 3317 246 SE
Maine        ME 22.5 4744 . NE
Maryland     MD 26.0 5758 260 NE
Massachusetts MA 28.0 5979 . NE
Michigan      MI 29.3 5116 264 MW
Minnesota    MN 11.4 4755 276 MW
Mississippi  MS 39.9 2874 . SE
Missouri     MO 26.5 4263 . MW
Montana      MT 15.0 4293 280 W
Nebraska     NE 13.9 4360 276 MW
Nevada       NV 28.1 3791 . W
New Hampshire NH 25.9 4807 273 NE
New Jersey   NJ 20.4 7549 269 NE
New Mexico   NM 28.5 3473 256 W
New York     NY 35.0 . 261 NE
North Carolina NC 31.2 3874 250 SE
North Dakota ND 12.1 3952 281 MW
Ohio         OH 24.4 4649 264 MW

```



;

---

**EMPDATA**

```

data empdata;
input IdNumber $ 1-4 LastName $ 9-19 FirstName $ 20-29
      City $ 30-42 State $ 43-44 /
      Gender $ 1 JobCode $ 9-11 Salary 20-29 @30 Birth date7.
      @43 Hired date7. HomePhone $ 54-65;
format birth hired date7.;
datalines;
1919 Adams Gerald Stamford CT
M TA2 34376 15SEP48 07JUN75 203/781-1255
1653 Alexander Susan Bridgeport CT
F ME2 35108 18OCT52 12AUG78 203/675-7715
1400 Apple Troy New York NY
M ME1 29769 08NOV55 19OCT78 212/586-0808
1350 Arthur Barbara New York NY
F FA3 32886 03SEP53 01AUG78 718/383-1549
1401 Avery Jerry Paterson NJ
M TA3 38822 16DEC38 20NOV73 201/732-8787
1499 Barefoot Joseph Princeton NJ
M ME3 43025 29APR42 10JUN68 201/812-5665
1101 Baucom Walter New York NY
M SCP 18723 09JUN50 04OCT78 212/586-8060
1333 Blair Justin Stamford CT
M PT2 88606 02APR49 13FEB69 203/781-1777
1402 Blalock Ralph New York NY
M TA2 32615 20JAN51 05DEC78 718/384-2849
1479 Bostic Marie New York NY
F TA3 38785 25DEC56 08OCT77 718/384-8816
1403 Bowden Earl Bridgeport CT
M ME1 28072 31JAN57 24DEC79 203/675-3434
1739 Boyce Jonathan New York NY
M PT1 66517 28DEC52 30JAN79 212/587-1247
1658 Bradley Jeremy New York NY
M SCP 17943 11APR55 03MAR80 212/587-3622
1428 Brady Christine Stamford CT
F PT1 68767 07APR58 19NOV79 203/781-1212
1782 Brown Jason Stamford CT
M ME2 35345 07DEC58 25FEB80 203/781-0019
1244 Bryant Leonard New York NY
M ME2 36925 03SEP51 20JAN76 718/383-3334
1383 Burnette Thomas New York NY
M BCK 25823 28JAN56 23OCT80 718/384-3569
1574 Cahill Marshall New York NY
M FA2 28572 30APR48 23DEC80 718/383-2338
1789 Caraway Davis New York NY
M SCP 18326 28JAN45 14APR66 212/587-9000
1404 Carter Donald New York NY
M PT2 91376 27FEB41 04JAN68 718/384-2946

```

1437	Carter	Dorothy	Bridgeport	CT	
F	A3	33104	23SEP48	03SEP72	203/675-4117
1639	Carter	Karen	Stamford	CT	
F	A3	40260	29JUN45	31JAN72	203/781-8839
1269	Caston	Franklin	Stamford	CT	
M	NA1	41690	06MAY60	01DEC80	203/781-3335
1065	Chapman	Neil	New York	NY	
M	ME2	35090	29JAN32	10JAN75	718/384-5618
1876	Chin	Jack	New York	NY	
M	TA3	39675	23MAY46	30APR73	212/588-5634
1037	Chow	Jane	Stamford	CT	
F	TA1	28558	13APR52	16SEP80	203/781-8868
1129	Cook	Brenda	New York	NY	
F	ME2	34929	11DEC49	20AUG79	718/383-2313
1988	Cooper	Anthony	New York	NY	
M	FA3	32217	03DEC47	21SEP72	212/587-1228
1405	Davidson	Jason	Paterson	NJ	
M	SCP	18056	08MAR54	29JAN80	201/732-2323
1430	Dean	Sandra	Bridgeport	CT	
F	TA2	32925	03MAR50	30APR75	203/675-1647
1983	Dean	Sharon	New York	NY	
F	FA3	33419	03MAR50	30APR75	718/384-1647
1134	Delgado	Maria	Stamford	CT	
F	TA2	33462	08MAR57	24DEC76	203/781-1528
1118	Dennis	Roger	New York	NY	
M	PT3	111379	19JAN32	21DEC68	718/383-1122
1438	Donaldson	Karen	Stamford	CT	
F	TA3	39223	18MAR53	21NOV75	203/781-2229
1125	Dunlap	Donna	New York	NY	
F	FA2	28888	11NOV56	14DEC75	718/383-2094
1475	Eaton	Alicia	New York	NY	
F	FA2	27787	18DEC49	16JUL78	718/383-2828
1117	Edgerton	Joshua	New York	NY	
M	TA3	39771	08JUN51	16AUG80	212/588-1239
1935	Fernandez	Katrina	Bridgeport	CT	
F	NA2	51081	31MAR42	19OCT69	203/675-2962
1124	Fields	Diana	White Plains	NY	
F	FA1	23177	13JUL46	04OCT78	914/455-2998
1422	Fletcher	Marie	Princeton	NJ	
F	FA1	22454	07JUN52	09APR79	201/812-0902
1616	Flowers	Annette	New York	NY	
F	TA2	34137	04MAR58	07JUN81	718/384-3329
1406	Foster	Gerald	Bridgeport	CT	
M	ME2	35185	11MAR49	20FEB75	203/675-6363
1120	Garcia	Jack	New York	NY	
M	ME1	28619	14SEP60	10OCT81	718/384-4930
1094	Gomez	Alan	Bridgeport	CT	
M	FA1	22268	05APR58	20APR79	203/675-7181
1389	Gordon	Levi	New York	NY	
M	BCK	25028	18JUL47	21AUG78	718/384-9326
1905	Graham	Alvin	New York	NY	
M	PT1	65111	19APR60	01JUN80	212/586-8815
1407	Grant	Daniel	Mt. Vernon	NY	
M	PT1	68096	26MAR57	21MAR78	914/468-1616

```

1114   Green   Janice   New York   NY
F      TA2     32928    21SEP57   30JUN75   212/588-1092
;

```

---

## ENERGY

```

data energy;
  length State $2;
  input Region Division state $ Type Expenditures;
  datalines;
1 1 ME 1 708
1 1 ME 2 379
1 1 NH 1 597
1 1 NH 2 301
1 1 VT 1 353
1 1 VT 2 188
1 1 MA 1 3264
1 1 MA 2 2498
1 1 RI 1 531
1 1 RI 2 358
1 1 CT 1 2024
1 1 CT 2 1405
1 2 NY 1 8786
1 2 NY 2 7825
1 2 NJ 1 4115
1 2 NJ 2 3558
1 2 PA 1 6478
1 2 PA 2 3695
4 3 MT 1 322
4 3 MT 2 232
4 3 ID 1 392
4 3 ID 2 298
4 3 WY 1 194
4 3 WY 2 184
4 3 CO 1 1215
4 3 CO 2 1173
4 3 NM 1 545
4 3 NM 2 578
4 3 AZ 1 1694
4 3 AZ 2 1448
4 3 UT 1 621
4 3 UT 2 438
4 3 NV 1 493
4 3 NV 2 378
4 4 WA 1 1680
4 4 WA 2 1122
4 4 OR 1 1014
4 4 OR 2 756
4 4 CA 1 10643
4 4 CA 2 10114
4 4 AK 1 349

```

```

4 4 AK 2 329
4 4 HI 1 273
4 4 HI 2 298
;

```

---

## GROC

```

data groc;
  input Region $9. Manager $ Department $ Sales;
  datalines;
Southeast Hayes Paper 250
Southeast Hayes Produce 100
Southeast Hayes Canned 120
Southeast Hayes Meat 80
Southeast Michaels Paper 40
Southeast Michaels Produce 300
Southeast Michaels Canned 220
Southeast Michaels Meat 70
Northwest Jeffreys Paper 60
Northwest Jeffreys Produce 600
Northwest Jeffreys Canned 420
Northwest Jeffreys Meat 30
Northwest Duncan Paper 45
Northwest Duncan Produce 250
Northwest Duncan Canned 230
Northwest Duncan Meat 73
Northwest Aikmann Paper 45
Northwest Aikmann Produce 205
Northwest Aikmann Canned 420
Northwest Aikmann Meat 76
Southwest Royster Paper 53
Southwest Royster Produce 130
Southwest Royster Canned 120
Southwest Royster Meat 50
Southwest Patel Paper 40
Southwest Patel Produce 350
Southwest Patel Canned 225
Southwest Patel Meat 80
Northeast Rice Paper 90
Northeast Rice Produce 90
Northeast Rice Canned 420
Northeast Rice Meat 86
Northeast Fuller Paper 200
Northeast Fuller Produce 300
Northeast Fuller Canned 420
Northeast Fuller Meat 125
;

```

---

## MATCH\_11

```

data match_11;
  input Pair Low Age Lwt Race Smoke Ptd Ht UI @@;
  select(race);
    when (1) do;
      race1=0;
      race2=0;
    end;
    when (2) do;
      race1=1;
      race2=0;
    end;
    when (3) do;
      race1=0;
      race2=1;
    end;
  end;
  datalines;
1 0 14 135 1 0 0 0 0 1 1 14 101 3 1 1 0 0
2 0 15 98 2 0 0 0 0 2 1 15 115 3 0 0 0 1
3 0 16 95 3 0 0 0 0 3 1 16 130 3 0 0 0 0
4 0 17 103 3 0 0 0 0 4 1 17 130 3 1 1 0 1
5 0 17 122 1 1 0 0 0 5 1 17 110 1 1 0 0 0
6 0 17 113 2 0 0 0 0 6 1 17 120 1 1 0 0 0
7 0 17 113 2 0 0 0 0 7 1 17 120 2 0 0 0 0
8 0 17 119 3 0 0 0 0 8 1 17 142 2 0 0 1 0
9 0 18 100 1 1 0 0 0 9 1 18 148 3 0 0 0 0
10 0 18 90 1 1 0 0 1 10 1 18 110 2 1 1 0 0
11 0 19 150 3 0 0 0 0 11 1 19 91 1 1 1 0 1
12 0 19 115 3 0 0 0 0 12 1 19 102 1 0 0 0 0
13 0 19 235 1 1 0 1 0 13 1 19 112 1 1 0 0 1
14 0 20 120 3 0 0 0 1 14 1 20 150 1 1 0 0 0
15 0 20 103 3 0 0 0 0 15 1 20 125 3 0 0 0 1
16 0 20 169 3 0 1 0 1 16 1 20 120 2 1 0 0 0
17 0 20 141 1 0 1 0 1 17 1 20 80 3 1 0 0 1
18 0 20 121 2 1 0 0 0 18 1 20 109 3 0 0 0 0
19 0 20 127 3 0 0 0 0 19 1 20 121 1 1 1 0 1
20 0 20 120 3 0 0 0 0 20 1 20 122 2 1 0 0 0
21 0 20 158 1 0 0 0 0 21 1 20 105 3 0 0 0 0
22 0 21 108 1 1 0 0 1 22 1 21 165 1 1 0 1 0
23 0 21 124 3 0 0 0 0 23 1 21 200 2 0 0 0 0
24 0 21 185 2 1 0 0 0 24 1 21 103 3 0 0 0 0
25 0 21 160 1 0 0 0 0 25 1 21 100 3 0 1 0 0
26 0 21 115 1 0 0 0 0 26 1 21 130 1 1 0 1 0
27 0 22 95 3 0 0 1 0 27 1 22 130 1 1 0 0 0
28 0 22 158 2 0 1 0 0 28 1 22 130 1 1 1 0 1
29 0 23 130 2 0 0 0 0 29 1 23 97 3 0 0 0 1
30 0 23 128 3 0 0 0 0 30 1 23 187 2 1 0 0 0
31 0 23 119 3 0 0 0 0 31 1 23 120 3 0 0 0 0
32 0 23 115 3 1 0 0 0 32 1 23 110 1 1 1 0 0
33 0 23 190 1 0 0 0 0 33 1 23 94 3 1 0 0 0
34 0 24 90 1 1 1 0 0 34 1 24 128 2 0 1 0 0
35 0 24 115 1 0 0 0 0 35 1 24 132 3 0 0 1 0
36 0 24 110 3 0 0 0 0 36 1 24 155 1 1 1 0 0
37 0 24 115 3 0 0 0 0 37 1 24 138 1 0 0 0 0

```

```

38 0 24 110 3 0 1 0 0    38 1 24 105 2 1 0 0 0
39 0 25 118 1 1 0 0 0    39 1 25 105 3 0 1 1 0
40 0 25 120 3 0 0 0 1    40 1 25  85 3 0 0 0 1
41 0 25 155 1 0 0 0 0    41 1 25 115 3 0 0 0 0
42 0 25 125 2 0 0 0 0    42 1 25  92 1 1 0 0 0
43 0 25 140 1 0 0 0 0    43 1 25  89 3 0 1 0 0
44 0 25 241 2 0 0 1 0    44 1 25 105 3 0 1 0 0
45 0 26 113 1 1 0 0 0    45 1 26 117 1 1 1 0 0
46 0 26 168 2 1 0 0 0    46 1 26  96 3 0 0 0 0
47 0 26 133 3 1 1 0 0    47 1 26 154 3 0 1 1 0
48 0 26 160 3 0 0 0 0    48 1 26 190 1 1 0 0 0
49 0 27 124 1 1 0 0 0    49 1 27 130 2 0 0 0 1
50 0 28 120 3 0 0 0 0    50 1 28 120 3 1 1 0 1
51 0 28 130 3 0 0 0 0    51 1 28  95 1 1 0 0 0
52 0 29 135 1 0 0 0 0    52 1 29 130 1 0 0 0 1
53 0 30  95 1 1 0 0 0    53 1 30 142 1 1 1 0 0
54 0 31 215 1 1 0 0 0    54 1 31 102 1 1 1 0 0
55 0 32 121 3 0 0 0 0    55 1 32 105 1 1 0 0 0
56 0 34 170 1 0 1 0 0    56 1 34 187 2 1 0 1 0
;

```

---

## PROCLIB.DELAY

```

data proclib.delay;
  input flight $3. +5 date date7. +2 orig $3. +3 dest $3. +3
        delaycat $15. +2 destype $15. +8 delay;
  informat date date7.;
  format date date7.;
  datalines;
114    01MAR94  LGA  LAX  1-10 Minutes  Domestic      8
202    01MAR94  LGA  ORD  No Delay      Domestic     -5
219    01MAR94  LGA  LON  11+ Minutes  International  18
622    01MAR94  LGA  FRA  No Delay      International -5
132    01MAR94  LGA  YYZ  11+ Minutes  International  14
271    01MAR94  LGA  PAR  1-10 Minutes  International   5
302    01MAR94  LGA  WAS  No Delay      Domestic     -2
114    02MAR94  LGA  LAX  No Delay      Domestic      0
202    02MAR94  LGA  ORD  1-10 Minutes  Domestic      5
219    02MAR94  LGA  LON  11+ Minutes  International  18
622    02MAR94  LGA  FRA  No Delay      International   0
132    02MAR94  LGA  YYZ  1-10 Minutes  International   5
271    02MAR94  LGA  PAR  1-10 Minutes  International   4
302    02MAR94  LGA  WAS  No Delay      Domestic      0
114    03MAR94  LGA  LAX  No Delay      Domestic     -1
202    03MAR94  LGA  ORD  No Delay      Domestic     -1
219    03MAR94  LGA  LON  1-10 Minutes  International   4
622    03MAR94  LGA  FRA  No Delay      International  -2
132    03MAR94  LGA  YYZ  1-10 Minutes  International   6
271    03MAR94  LGA  PAR  1-10 Minutes  International   2
302    03MAR94  LGA  WAS  1-10 Minutes  Domestic      5
114    04MAR94  LGA  LAX  11+ Minutes  Domestic     15

```

202	04MAR94	LGA	ORD	No Delay	Domestic	-5
219	04MAR94	LGA	LON	1-10 Minutes	International	3
622	04MAR94	LGA	FRA	11+ Minutes	International	30
132	04MAR94	LGA	YYZ	No Delay	International	-5
271	04MAR94	LGA	PAR	1-10 Minutes	International	5
302	04MAR94	LGA	WAS	1-10 Minutes	Domestic	7
114	05MAR94	LGA	LAX	No Delay	Domestic	-2
202	05MAR94	LGA	ORD	1-10 Minutes	Domestic	2
219	05MAR94	LGA	LON	1-10 Minutes	International	3
622	05MAR94	LGA	FRA	No Delay	International	-6
132	05MAR94	LGA	YYZ	1-10 Minutes	International	3
271	05MAR94	LGA	PAR	1-10 Minutes	International	5
114	06MAR94	LGA	LAX	No Delay	Domestic	-1
202	06MAR94	LGA	ORD	No Delay	Domestic	-3
219	06MAR94	LGA	LON	11+ Minutes	International	27
132	06MAR94	LGA	YYZ	1-10 Minutes	International	7
302	06MAR94	LGA	WAS	1-10 Minutes	Domestic	1
114	07MAR94	LGA	LAX	No Delay	Domestic	-1
202	07MAR94	LGA	ORD	No Delay	Domestic	-2
219	07MAR94	LGA	LON	11+ Minutes	International	15
622	07MAR94	LGA	FRA	11+ Minutes	International	21
132	07MAR94	LGA	YYZ	No Delay	International	-2
271	07MAR94	LGA	PAR	1-10 Minutes	International	4
302	07MAR94	LGA	WAS	No Delay	Domestic	0

;

---

## PROCLIB.EMP95

```

data proclib.emp95;
  input #1 idnum $4. @6 name $15.
        #2 address $42.
        #3 salary 6.;
  datalines;
2388 James Schmidt
100 Apt. C Blount St. SW Raleigh NC 27693
92100
2457 Fred Williams
99 West Lane Garner NC 27509
33190
2776 Robert Jones
12988 Wellington Farms Ave. Cary NC 27512
29025
8699 Jerry Capalleti
222 West L St. Oxford NC 27587
39985
2100 Lanny Engles
293 Manning Pl. Raleigh NC 27606
30998
9857 Kathy Krupski
1000 Taft Ave. Morrisville NC 27508
38756

```

0987 Dolly Lunford  
 2344 Persimmons Branch Apex NC 27505  
 44010  
 3286 Hoa Nguyen  
 2818 Long St. Cary NC 27513  
 87734  
 6579 Bryan Samosky  
 3887 Charles Ave. Garner NC 27508  
 50234  
 3888 Kim Siu  
 5662 Magnolia Blvd Southeast Cary NC 27513  
 77558  
 ;

---

## PROCLIB.EMP96

```
data proclib.emp96;
  input #1 idnum $4. @6 name $15.
        #2 address $42.
        #3 salary 6.;
  datalines;
2388 James Schmidt
100 Apt. C Blount St. SW Raleigh NC 27693
92100
2457 Fred Williams
99 West Lane Garner NC 27509
33190
2776 Robert Jones
12988 Wellington Farms Ave. Cary NC 27511
29025
8699 Jerry Capalleti
222 West L St. Oxford NC 27587
39985
3278 Mary Cravens
211 N. Cypress St. Cary NC 27512
35362
2100 Lanny Engles
293 Manning Pl. Raleigh NC 27606
30998
9857 Kathy Krupski
100 Taft Ave. Morrisville NC 27508
40456
0987 Dolly Lunford
2344 Persimmons Branch Trail Apex NC 27505
45110
3286 Hoa Nguyen
2818 Long St. Cary NC 27513
89834
6579 Bryan Samosky
3887 Charles Ave. Garner NC 27508
```



```

50234
3888 Kim Siu
5662 Magnolia Blvd Southwest Cary NC 27513
79958
6544 Roger Monday
3004 Crepe Myrtle Court Raleigh NC 27604
47007
;

```

---

## PROCLIB.INTERNAT

```

data proclib.internat;
  input flight $3. +5 date date7. +2 dest $3. +8 boarded;
  informat date date7.;
  format date date7.;
  datalines;
219    01MAR94  LON      198
622    01MAR94  FRA      207
132    01MAR94  YYZ      115
271    01MAR94  PAR      138
219    02MAR94  LON      147
622    02MAR94  FRA      176
132    02MAR94  YYZ      106
271    02MAR94  PAR      172
219    03MAR94  LON      197
622    03MAR94  FRA      180
132    03MAR94  YYZ       75
271    03MAR94  PAR      147
219    04MAR94  LON      232
622    04MAR94  FRA      137
132    04MAR94  YYZ      117
271    04MAR94  PAR      146
219    05MAR94  LON      160
622    05MAR94  FRA      185
132    05MAR94  YYZ      157
271    05MAR94  PAR      177
219    06MAR94  LON      163
132    06MAR94  YYZ      150
219    07MAR94  LON      241
622    07MAR94  FRA      210
132    07MAR94  YYZ      164
271    07MAR94  PAR      155
;

```

---

## PROCLIB.LAKES

```

data proclib.lakes;
  input region $ 1-2 lake $ 5-13 pol_a1 pol_a2 pol_b1-pol_b4;

```

```

        datalines;
NE Carr      0.24    0.99    0.95    0.36    0.44    0.67
NE Duraleigh 0.34    0.01    0.48    0.58    0.12    0.56
NE Charlie   0.40    0.48    0.29    0.56    0.52    0.95
NE Farmer    0.60    0.65    0.25    0.20    0.30    0.64
NW Canyon    0.63    0.44    0.20    0.98    0.19    0.01
NW Morris    0.85    0.95    0.80    0.67    0.32    0.81
NW Golf      0.69    0.37    0.08    0.72    0.71    0.32
NW Falls     0.01    0.02    0.59    0.58    0.67    0.02
SE Pleasant  0.16    0.96    0.71    0.35    0.35    0.48
SE Juliette  0.82    0.35    0.09    0.03    0.59    0.90
SE Massey    1.01    0.77    0.45    0.32    0.55    0.66
SE Delta     0.84    1.05    0.90    0.09    0.64    0.03
SW Alumni    0.45    0.32    0.45    0.44    0.55    0.12
SW New Dam   0.80    0.70    0.31    0.98    1.00    0.22
SW Border    0.51    0.04    0.55    0.35    0.45    0.78
SW Red       0.22    0.09    0.02    0.10    0.32    0.01
;

```

---

## PROCLIB.MARCH

```

data proclib.march;
  input flight $3. +5 date date7. +3 depart time5. +2 orig $3.
        +3 dest $3. +7 miles +6 boarded +6 capacity;
  format date date7. depart time5.;
  informat date date7. depart time5.;
  datalines;
114 01MAR94 7:10 LGA LAX 2475 172 210
202 01MAR94 10:43 LGA ORD 740 151 210
219 01MAR94 9:31 LGA LON 3442 198 250
622 01MAR94 12:19 LGA FRA 3857 207 250
132 01MAR94 15:35 LGA YYZ 366 115 178
271 01MAR94 13:17 LGA PAR 3635 138 250
302 01MAR94 20:22 LGA WAS 229 105 180
114 02MAR94 7:10 LGA LAX 2475 119 210
202 02MAR94 10:43 LGA ORD 740 120 210
219 02MAR94 9:31 LGA LON 3442 147 250
622 02MAR94 12:19 LGA FRA 3857 176 250
132 02MAR94 15:35 LGA YYZ 366 106 178
302 02MAR94 20:22 LGA WAS 229 78 180
271 02MAR94 13:17 LGA PAR 3635 104 250
114 03MAR94 7:10 LGA LAX 2475 197 210
202 03MAR94 10:43 LGA ORD 740 118 210
219 03MAR94 9:31 LGA LON 3442 197 250
622 03MAR94 12:19 LGA FRA 3857 180 250
132 03MAR94 15:35 LGA YYZ 366 75 178
271 03MAR94 13:17 LGA PAR 3635 147 250
302 03MAR94 20:22 LGA WAS 229 123 180
114 04MAR94 7:10 LGA LAX 2475 178 210
202 04MAR94 10:43 LGA ORD 740 148 210
219 04MAR94 9:31 LGA LON 3442 232 250

```

622	04MAR94	12:19	LGA	FRA	3857	137	250
132	04MAR94	15:35	LGA	YYZ	366	117	178
271	04MAR94	13:17	LGA	PAR	3635	146	250
302	04MAR94	20:22	LGA	WAS	229	115	180
114	05MAR94	7:10	LGA	LAX	2475	117	210
202	05MAR94	10:43	LGA	ORD	740	104	210
219	05MAR94	9:31	LGA	LON	3442	160	250
622	05MAR94	12:19	LGA	FRA	3857	185	250
132	05MAR94	15:35	LGA	YYZ	366	157	178
271	05MAR94	13:17	LGA	PAR	3635	177	250
114	06MAR94	7:10	LGA	LAX	2475	128	210
202	06MAR94	10:43	LGA	ORD	740	115	210
219	06MAR94	9:31	LGA	LON	3442	163	250
132	06MAR94	15:35	LGA	YYZ	366	150	178
302	06MAR94	20:22	LGA	WAS	229	66	180
114	07MAR94	7:10	LGA	LAX	2475	160	210
202	07MAR94	10:43	LGA	ORD	740	175	210
219	07MAR94	9:31	LGA	LON	3442	241	250
622	07MAR94	12:19	LGA	FRA	3857	210	250
132	07MAR94	15:35	LGA	YYZ	366	164	178
271	07MAR94	13:17	LGA	PAR	3635	155	250
302	07MAR94	20:22	LGA	WAS	229	135	180

;

---

## PROCLIB.PAYLIST2

```

proc sql;
  create table proclib.paylist2
    (IdNum char(4),
      Gender char(1),
      Jobcode char(3),
      Salary num,
      Birth num informat=date7.
        format=date7.,
      Hired num informat=date7.
        format=date7.);

insert into proclib.paylist2
values('1919','M','TA2',34376,'12SEP66'd,'04JUN87'd)
values('1653','F','ME2',31896,'15OCT64'd,'09AUG92'd)
values('1350','F','FA3',36886,'31AUG55'd,'29JUL91'd)
values('1401','M','TA3',38822,'13DEC55'd,'17NOV93'd)
values('1499','M','ME1',23025,'26APR74'd,'07JUN92'd);

title 'PROCLIB.PAYLIST2 Table';
select * from proclib.paylist2;

```

## PROCLIB.PAYROLL

This data set (table) is updated in Example 3 on page 1104 and its updated data are used in subsequent examples.

```

data proclib.payroll;
  input IdNumber $4. +3 Sex $1. +4 Jobcode $3. +9 Salary 5.
        +2 Birth date7. +2 Hired date7.;
  informat birth date7. hired date7.;
  format birth date7. hired date7.;
  datalines;
1919  M   TA2           34376  12SEP60  04JUN87
1653  F   ME2           35108  15OCT64  09AUG90
1400  M   ME1           29769  05NOV67  16OCT90
1350  F   FA3           32886  31AUG65  29JUL90
1401  M   TA3           38822  13DEC50  17NOV85
1499  M   ME3           43025  26APR54  07JUN80
1101  M   SCP           18723  06JUN62  01OCT90
1333  M   PT2           88606  30MAR61  10FEB81
1402  M   TA2           32615  17JAN63  02DEC90
1479  F   TA3           38785  22DEC68  05OCT89
1403  M   ME1           28072  28JAN69  21DEC91
1739  M   PT1           66517  25DEC64  27JAN91
1658  M   SCP           17943  08APR67  29FEB92
1428  F   PT1           68767  04APR60  16NOV91
1782  M   ME2           35345  04DEC70  22FEB92
1244  M   ME2           36925  31AUG63  17JAN88
1383  M   BCK           25823  25JAN68  20OCT92
1574  M   FA2           28572  27APR60  20DEC92
1789  M   SCP           18326  25JAN57  11APR78
1404  M   PT2           91376  24FEB53  01JAN80
1437  F   FA3           33104  20SEP60  31AUG84
1639  F   TA3           40260  26JUN57  28JAN84
1269  M   NA1           41690  03MAY72  28NOV92
1065  M   ME2           35090  26JAN44  07JAN87
1876  M   TA3           39675  20MAY58  27APR85
1037  F   TA1           28558  10APR64  13SEP92
1129  F   ME2           34929  08DEC61  17AUG91
1988  M   FA3           32217  30NOV59  18SEP84
1405  M   SCP           18056  05MAR66  26JAN92
1430  F   TA2           32925  28FEB62  27APR87
1983  F   FA3           33419  28FEB62  27APR87
1134  F   TA2           33462  05MAR69  21DEC88
1118  M   PT3          111379  16JAN44  18DEC80
1438  F   TA3           39223  15MAR65  18NOV87
1125  F   FA2           28888  08NOV68  11DEC87
1475  F   FA2           27787  15DEC61  13JUL90
1117  M   TA3           39771  05JUN63  13AUG92
1935  F   NA2           51081  28MAR54  16OCT81
1124  F   FA1           23177  10JUL58  01OCT90
1422  F   FA1           22454  04JUN64  06APR91
1616  F   TA2           34137  01MAR70  04JUN93
1406  M   ME2           35185  08MAR61  17FEB87

```

1120	M	ME1	28619	11SEP72	07OCT93
1094	M	FA1	22268	02APR70	17APR91
1389	M	BCK	25028	15JUL59	18AUG90
1905	M	PT1	65111	16APR72	29MAY92
1407	M	PT1	68096	23MAR69	18MAR90
1114	F	TA2	32928	18SEP69	27JUN87
1410	M	PT2	84685	03MAY67	07NOV86
1439	F	PT1	70736	06MAR64	10SEP90
1409	M	ME3	41551	19APR50	22OCT81
1408	M	TA2	34138	29MAR60	14OCT87
1121	M	ME1	29112	26SEP71	07DEC91
1991	F	TA1	27645	07MAY72	12DEC92
1102	M	TA2	34542	01OCT59	15APR91
1356	M	ME2	36869	26SEP57	22FEB83
1545	M	PT1	66130	12AUG59	29MAY90
1292	F	ME2	36691	28OCT64	02JUL89
1440	F	ME2	35757	27SEP62	09APR91
1368	M	FA2	27808	11JUN61	03NOV84
1369	M	TA2	33705	28DEC61	13MAR87
1411	M	FA2	27265	27MAY61	01DEC89
1113	F	FA1	22367	15JAN68	17OCT91
1704	M	BCK	25465	30AUG66	28JUN87
1900	M	ME2	35105	25MAY62	27OCT87
1126	F	TA3	40899	28MAY63	21NOV80
1677	M	BCK	26007	05NOV63	27MAR89
1441	F	FA2	27158	19NOV69	23MAR91
1421	M	TA2	33155	08JAN59	28FEB90
1119	M	TA1	26924	20JUN62	06SEP88
1834	M	BCK	26896	08FEB72	02JUL92
1777	M	PT3	109630	23SEP51	21JUN81
1663	M	BCK	26452	11JAN67	11AUG91
1106	M	PT2	89632	06NOV57	16AUG84
1103	F	FA1	23738	16FEB68	23JUL92
1477	M	FA2	28566	21MAR64	07MAR88
1476	F	TA2	34803	30MAY66	17MAR87
1379	M	ME3	42264	08AUG61	10JUN84
1104	M	SCP	17946	25APR63	10JUN91
1009	M	TA1	28880	02MAR59	26MAR92
1412	M	ME1	27799	18JUN56	05DEC91
1115	F	FA3	32699	22AUG60	29FEB80
1128	F	TA2	32777	23MAY65	20OCT90
1442	F	PT2	84536	05SEP66	12APR88
1417	M	NA2	52270	27JUN64	07MAR89
1478	M	PT2	84203	09AUG59	24OCT90
1673	M	BCK	25477	27FEB70	15JUL91
1839	F	NA1	43433	29NOV70	03JUL93
1347	M	TA3	40079	21SEP67	06SEP84
1423	F	ME2	35773	14MAY68	19AUG90
1200	F	ME1	27816	10JAN71	14AUG92
1970	F	FA1	22615	25SEP64	12MAR91
1521	M	ME3	41526	12APR63	13JUL88
1354	F	SCP	18335	29MAY71	16JUN92
1424	F	FA2	28978	04AUG69	11DEC89
1132	F	FA1	22413	30MAY72	22OCT93

1845	M	BCK	25996	20NOV59	22MAR80
1556	M	PT1	71349	22JUN64	11DEC91
1413	M	FA2	27435	16SEP65	02JAN90
1123	F	TA1	28407	31OCT72	05DEC92
1907	M	TA2	33329	15NOV60	06JUL87
1436	F	TA2	34475	11JUN64	12MAR87
1385	M	ME3	43900	16JAN62	01APR86
1432	F	ME2	35327	03NOV61	10FEB85
1111	M	NA1	40586	14JUL73	31OCT92
1116	F	FA1	22862	28SEP69	21MAR91
1352	M	NA2	53798	02DEC60	16OCT86
1555	F	FA2	27499	16MAR68	04JUL92
1038	F	TA1	26533	09NOV69	23NOV91
1420	M	ME3	43071	19FEB65	22JUL87
1561	M	TA2	34514	30NOV63	07OCT87
1434	F	FA2	28622	11JUL62	28OCT90
1414	M	FA1	23644	24MAR72	12APR92
1112	M	TA1	26905	29NOV64	07DEC92
1390	M	FA2	27761	19FEB65	23JUN91
1332	M	NA1	42178	17SEP70	04JUN91
1890	M	PT2	91908	20JUL51	25NOV79
1429	F	TA1	27939	28FEB60	07AUG92
1107	M	PT2	89977	09JUN54	10FEB79
1908	F	TA2	32995	10DEC69	23APR90
1830	F	PT2	84471	27MAY57	29JAN83
1882	M	ME3	41538	10JUL57	21NOV78
1050	M	ME2	35167	14JUL63	24AUG86
1425	F	FA1	23979	28DEC71	28FEB93
1928	M	PT2	89858	16SEP54	13JUL90
1480	F	TA3	39583	03SEP57	25MAR81
1100	M	BCK	25004	01DEC60	07MAY88
1995	F	ME1	28810	24AUG73	19SEP93
1135	F	FA2	27321	20SEP60	31MAR90
1415	M	FA2	28278	09MAR58	12FEB88
1076	M	PT1	66558	14OCT55	03OCT91
1426	F	TA2	32991	05DEC66	25JUN90
1564	F	SCP	18833	12APR62	01JUL92
1221	F	FA2	27896	22SEP67	04OCT91
1133	M	TA1	27701	13JUL66	12FEB92
1435	F	TA3	38808	12MAY59	08FEB80
1418	M	ME1	28005	29MAR57	06JAN92
1017	M	TA3	40858	28DEC57	16OCT81
1443	F	NA1	42274	17NOV68	29AUG91
1131	F	TA2	32575	26DEC71	19APR91
1427	F	TA2	34046	31OCT70	30JAN90
1036	F	TA3	39392	19MAY65	23OCT84
1130	F	FA1	23916	16MAY71	05JUN92
1127	F	TA2	33011	09NOV64	07DEC86
1433	F	FA3	32982	08JUL66	17JAN87
1431	F	FA3	33230	09JUN64	05APR88
1122	F	FA2	27956	01MAY63	27NOV88
1105	M	ME2	34805	01MAR62	13AUG90

;

---

**PROCLIB.PAYROLL2**

```

data proclib.payroll2;
  input idnum $4. +3 sex $1. +4 jobcode $3. +9 salary 5.
        +2 birth date7. +2 hired date7.;
  informat birth date7. hired date7.;
  format birth date7. hired date7.;
  datalines;
1639  F   TA3          42260  26JUN57  28JAN84
1065  M   ME3          38090  26JAN44  07JAN87
1561  M   TA3          36514  30NOV63  07OCT87
1221  F   FA3          29896  22SEP67  04OCT91
1447  F   FA1          22123  07AUG72  29OCT92
1998  M   SCP          23100  10SEP70  02NOV92
1036  F   TA3          42465  19MAY65  23OCT84
1106  M   PT3          94039  06NOV57  16AUG84
1129  F   ME3          36758  08DEC61  17AUG91
1350  F   FA3          36098  31AUG65  29JUL90
1369  M   TA3          36598  28DEC61  13MAR87
1076  M   PT1          69742  14OCT55  03OCT91
;

```

---

**PROCLIB.SCHEDULE**

```

data proclib.schedule;
  input flight $3. +5 date date7. +2 dest $3. +3 idnum $4.;
  format date date7.;
  informat date date7.;
  datalines;
132   01MAR94  YYZ   1739
132   01MAR94  YYZ   1478
132   01MAR94  YYZ   1130
132   01MAR94  YYZ   1390
132   01MAR94  YYZ   1983
132   01MAR94  YYZ   1111
219   01MAR94  LON   1407
219   01MAR94  LON   1777
219   01MAR94  LON   1103
219   01MAR94  LON   1125
219   01MAR94  LON   1350
219   01MAR94  LON   1332
271   01MAR94  PAR   1439
271   01MAR94  PAR   1442
271   01MAR94  PAR   1132
271   01MAR94  PAR   1411
271   01MAR94  PAR   1988
271   01MAR94  PAR   1443
622   01MAR94  FRA   1545
622   01MAR94  FRA   1890

```

622	01MAR94	FRA	1116
622	01MAR94	FRA	1221
622	01MAR94	FRA	1433
622	01MAR94	FRA	1352
132	02MAR94	YYZ	1556
132	02MAR94	YYZ	1478
132	02MAR94	YYZ	1113
132	02MAR94	YYZ	1411
132	02MAR94	YYZ	1574
132	02MAR94	YYZ	1111
219	02MAR94	LON	1407
219	02MAR94	LON	1118
219	02MAR94	LON	1132
219	02MAR94	LON	1135
219	02MAR94	LON	1441
219	02MAR94	LON	1332
271	02MAR94	PAR	1739
271	02MAR94	PAR	1442
271	02MAR94	PAR	1103
271	02MAR94	PAR	1413
271	02MAR94	PAR	1115
271	02MAR94	PAR	1443
622	02MAR94	FRA	1439
622	02MAR94	FRA	1890
622	02MAR94	FRA	1124
622	02MAR94	FRA	1368
622	02MAR94	FRA	1477
622	02MAR94	FRA	1352
132	03MAR94	YYZ	1739
132	03MAR94	YYZ	1928
132	03MAR94	YYZ	1425
132	03MAR94	YYZ	1135
132	03MAR94	YYZ	1437
132	03MAR94	YYZ	1111
219	03MAR94	LON	1428
219	03MAR94	LON	1442
219	03MAR94	LON	1130
219	03MAR94	LON	1411
219	03MAR94	LON	1115
219	03MAR94	LON	1332
271	03MAR94	PAR	1905
271	03MAR94	PAR	1118
271	03MAR94	PAR	1970
271	03MAR94	PAR	1125
271	03MAR94	PAR	1983
271	03MAR94	PAR	1443
622	03MAR94	FRA	1545
622	03MAR94	FRA	1830
622	03MAR94	FRA	1414
622	03MAR94	FRA	1368
622	03MAR94	FRA	1431
622	03MAR94	FRA	1352
132	04MAR94	YYZ	1428
132	04MAR94	YYZ	1118



132	04MAR94	YYZ	1103
132	04MAR94	YYZ	1390
132	04MAR94	YYZ	1350
132	04MAR94	YYZ	1111
219	04MAR94	LON	1739
219	04MAR94	LON	1478
219	04MAR94	LON	1130
219	04MAR94	LON	1125
219	04MAR94	LON	1983
219	04MAR94	LON	1332
271	04MAR94	PAR	1407
271	04MAR94	PAR	1410
271	04MAR94	PAR	1094
271	04MAR94	PAR	1411
271	04MAR94	PAR	1115
271	04MAR94	PAR	1443
622	04MAR94	FRA	1545
622	04MAR94	FRA	1890
622	04MAR94	FRA	1116
622	04MAR94	FRA	1221
622	04MAR94	FRA	1433
622	04MAR94	FRA	1352
132	05MAR94	YYZ	1556
132	05MAR94	YYZ	1890
132	05MAR94	YYZ	1113
132	05MAR94	YYZ	1475
132	05MAR94	YYZ	1431
132	05MAR94	YYZ	1111
219	05MAR94	LON	1428
219	05MAR94	LON	1442
219	05MAR94	LON	1422
219	05MAR94	LON	1413
219	05MAR94	LON	1574
219	05MAR94	LON	1332
271	05MAR94	PAR	1739
271	05MAR94	PAR	1928
271	05MAR94	PAR	1103
271	05MAR94	PAR	1477
271	05MAR94	PAR	1433
271	05MAR94	PAR	1443
622	05MAR94	FRA	1545
622	05MAR94	FRA	1830
622	05MAR94	FRA	1970
622	05MAR94	FRA	1441
622	05MAR94	FRA	1350
622	05MAR94	FRA	1352
132	06MAR94	YYZ	1333
132	06MAR94	YYZ	1890
132	06MAR94	YYZ	1414
132	06MAR94	YYZ	1475
132	06MAR94	YYZ	1437
132	06MAR94	YYZ	1111
219	06MAR94	LON	1106
219	06MAR94	LON	1118

```

219 06MAR94 LON 1425
219 06MAR94 LON 1434
219 06MAR94 LON 1555
219 06MAR94 LON 1332
132 07MAR94 YYZ 1407
132 07MAR94 YYZ 1118
132 07MAR94 YYZ 1094
132 07MAR94 YYZ 1555
132 07MAR94 YYZ 1350
132 07MAR94 YYZ 1111
219 07MAR94 LON 1905
219 07MAR94 LON 1478
219 07MAR94 LON 1124
219 07MAR94 LON 1434
219 07MAR94 LON 1983
219 07MAR94 LON 1332
271 07MAR94 PAR 1410
271 07MAR94 PAR 1777
271 07MAR94 PAR 1103
271 07MAR94 PAR 1574
271 07MAR94 PAR 1115
271 07MAR94 PAR 1443
622 07MAR94 FRA 1107
622 07MAR94 FRA 1890
622 07MAR94 FRA 1425
622 07MAR94 FRA 1475
622 07MAR94 FRA 1433
622 07MAR94 FRA 1352
;

```

---

## PROCLIB.STAFF

```

data proclib.staff;
  input idnum $4. +3 lname $15. +2 fname $15. +2 city $15. +2
    state $2. +5 hphone $12.;
  datalines;
1919 ADAMS GERALD STAMFORD CT 203/781-1255
1653 ALIBRANDI MARIA BRIDGEPORT CT 203/675-7715
1400 ALHERTANI ABDULLAH NEW YORK NY 212/586-0808
1350 ALVAREZ MERCEDES NEW YORK NY 718/383-1549
1401 ALVAREZ CARLOS PATERSON NJ 201/732-8787
1499 BAREFOOT JOSEPH PRINCETON NJ 201/812-5665
1101 BAUCOM WALTER NEW YORK NY 212/586-8060
1333 BANADYGA JUSTIN STAMFORD CT 203/781-1777
1402 BLALOCK RALPH NEW YORK NY 718/384-2849
1479 BALLETTI MARIE NEW YORK NY 718/384-8816
1403 BOWDEN EARL BRIDGEPORT CT 203/675-3434
1739 BRANCACCIO JOSEPH NEW YORK NY 212/587-1247
1658 BREUHAUS JEREMY NEW YORK NY 212/587-3622
1428 BRADY CHRISTINE STAMFORD CT 203/781-1212
1782 BREWCZAK JAKOB STAMFORD CT 203/781-0019

```

1244	BUCCI	ANTHONY	NEW YORK	NY	718/383-3334
1383	BURNETTE	THOMAS	NEW YORK	NY	718/384-3569
1574	CAHILL	MARSHALL	NEW YORK	NY	718/383-2338
1789	CARAWAY	DAVIS	NEW YORK	NY	212/587-9000
1404	COHEN	LEE	NEW YORK	NY	718/384-2946
1437	CARTER	DOROTHY	BRIDGEPORT	CT	203/675-4117
1639	CARTER-COHEN	KAREN	STAMFORD	CT	203/781-8839
1269	CASTON	FRANKLIN	STAMFORD	CT	203/781-3335
1065	COPAS	FREDERICO	NEW YORK	NY	718/384-5618
1876	CHIN	JACK	NEW YORK	NY	212/588-5634
1037	CHOW	JANE	STAMFORD	CT	203/781-8868
1129	COUNIHAN	BRENDA	NEW YORK	NY	718/383-2313
1988	COOPER	ANTHONY	NEW YORK	NY	212/587-1228
1405	DACKO	JASON	PATERSON	NJ	201/732-2323
1430	DABROWSKI	SANDRA	BRIDGEPORT	CT	203/675-1647
1983	DEAN	SHARON	NEW YORK	NY	718/384-1647
1134	DELGADO	MARIA	STAMFORD	CT	203/781-1528
1118	DENNIS	ROGER	NEW YORK	NY	718/383-1122
1438	DABBOUSSI	KAMILLA	STAMFORD	CT	203/781-2229
1125	DUNLAP	DONNA	NEW YORK	NY	718/383-2094
1475	ELGES	MARGARETE	NEW YORK	NY	718/383-2828
1117	EDGERTON	JOSHUA	NEW YORK	NY	212/588-1239
1935	FERNANDEZ	KATRINA	BRIDGEPORT	CT	203/675-2962
1124	FIELDS	DIANA	WHITE PLAINS	NY	914/455-2998
1422	FUJIHARA	KYOKO	PRINCETON	NJ	201/812-0902
1616	FUENTAS	CARLA	NEW YORK	NY	718/384-3329
1406	FOSTER	GERALD	BRIDGEPORT	CT	203/675-6363
1120	GARCIA	JACK	NEW YORK	NY	718/384-4930
1094	GOMEZ	ALAN	BRIDGEPORT	CT	203/675-7181
1389	GOLDSTEIN	LEVI	NEW YORK	NY	718/384-9326
1905	GRAHAM	ALVIN	NEW YORK	NY	212/586-8815
1407	GREGORSKI	DANIEL	MT. VERNON	NY	914/468-1616
1114	GREENWALD	JANICE	NEW YORK	NY	212/588-1092
1410	HARRIS	CHARLES	STAMFORD	CT	203/781-0937
1439	HASENHAUER	CHRISTINA	BRIDGEPORT	CT	203/675-4987
1409	HAVELKA	RAYMOND	STAMFORD	CT	203/781-9697
1408	HENDERSON	WILLIAM	PRINCETON	NJ	201/812-4789
1121	HERNANDEZ	ROBERTO	NEW YORK	NY	718/384-3313
1991	HOWARD	GRETCHEN	BRIDGEPORT	CT	203/675-0007
1102	HERMANN	JOACHIM	WHITE PLAINS	NY	914/455-0976
1356	HOWARD	MICHAEL	NEW YORK	NY	212/586-8411
1545	HERRERO	CLYDE	STAMFORD	CT	203/781-1119
1292	HUNTER	HELEN	BRIDGEPORT	CT	203/675-4830
1440	JACKSON	LAURA	STAMFORD	CT	203/781-0088
1368	JEPSEN	RONALD	STAMFORD	CT	203/781-8413
1369	JONSON	ANTHONY	NEW YORK	NY	212/587-5385
1411	JOHNSEN	JACK	PATERSON	NJ	201/732-3678
1113	JOHNSON	LESLIE	NEW YORK	NY	718/383-3003
1704	JONES	NATHAN	NEW YORK	NY	718/384-0049
1900	KING	WILLIAM	NEW YORK	NY	718/383-3698
1126	KIMANI	ANNE	NEW YORK	NY	212/586-1229
1677	KRAMER	JACKSON	BRIDGEPORT	CT	203/675-7432
1441	LAWRENCE	KATHY	PRINCETON	NJ	201/812-3337
1421	LEE	RUSSELL	MT. VERNON	NY	914/468-9143

1119	LI	JEFF	NEW YORK	NY	212/586-2344
1834	LEBLANC	RUSSELL	NEW YORK	NY	718/384-0040
1777	LUFKIN	ROY	NEW YORK	NY	718/383-4413
1663	MARKS	JOHN	NEW YORK	NY	212/587-7742
1106	MARSHBURN	JASPER	STAMFORD	CT	203/781-1457
1103	MCDANIEL	RONDA	NEW YORK	NY	212/586-0013
1477	MEYERS	PRESTON	BRIDGEPORT	CT	203/675-8125
1476	MONROE	JOYCE	STAMFORD	CT	203/781-2837
1379	MORGAN	ALFRED	STAMFORD	CT	203/781-2216
1104	MORGAN	CHRISTOPHER	NEW YORK	NY	718/383-9740
1009	MORGAN	GEORGE	NEW YORK	NY	212/586-7753
1412	MURPHEY	JOHN	PRINCETON	NJ	201/812-4414
1115	MURPHY	ALICE	NEW YORK	NY	718/384-1982
1128	NELSON	FELICIA	BRIDGEPORT	CT	203/675-1166
1442	NEWKIRK	SANDRA	PRINCETON	NJ	201/812-3331
1417	NEWKIRK	WILLIAM	PATERSON	NJ	201/732-6611
1478	NEWTON	JAMES	NEW YORK	NY	212/587-5549
1673	NICHOLLS	HENRY	STAMFORD	CT	203/781-7770
1839	NORRIS	DIANE	NEW YORK	NY	718/384-1767
1347	O'NEAL	BRYAN	NEW YORK	NY	718/384-0230
1423	OSWALD	LESLIE	MT. VERNON	NY	914/468-9171
1200	OVERMAN	MICHELLE	STAMFORD	CT	203/781-1835
1970	PARKER	ANNE	NEW YORK	NY	718/383-3895
1521	PARKER	JAY	NEW YORK	NY	212/587-7603
1354	PARKER	MARY	WHITE PLAINS	NY	914/455-2337
1424	PATTERSON	RENEE	NEW YORK	NY	212/587-8991
1132	PEARCE	CAROL	NEW YORK	NY	718/384-1986
1845	PEARSON	JAMES	NEW YORK	NY	718/384-2311
1556	PENNINGTON	MICHAEL	NEW YORK	NY	718/383-5681
1413	PETERS	RANDALL	PRINCETON	NJ	201/812-2478
1123	PETERSON	SUZANNE	NEW YORK	NY	718/383-0077
1907	PHELPS	WILLIAM	STAMFORD	CT	203/781-1118
1436	PORTER	SUSAN	NEW YORK	NY	718/383-5777
1385	RAYNOR	MILTON	BRIDGEPORT	CT	203/675-2846
1432	REED	MARILYN	MT. VERNON	NY	914/468-5454
1111	RHODES	JEREMY	PRINCETON	NJ	201/812-1837
1116	RICHARDS	CASEY	NEW YORK	NY	212/587-1224
1352	RIVERS	SIMON	NEW YORK	NY	718/383-3345
1555	RODRIGUEZ	JULIA	BRIDGEPORT	CT	203/675-2401
1038	RODRIGUEZ	MARIA	BRIDGEPORT	CT	203/675-2048
1420	ROUSE	JEREMY	PATERSON	NJ	201/732-9834
1561	SANDERS	RAYMOND	NEW YORK	NY	212/588-6615
1434	SANDERSON	EDITH	STAMFORD	CT	203/781-1333
1414	SANDERSON	NATHAN	BRIDGEPORT	CT	203/675-1715
1112	SANYERS	RANDY	NEW YORK	NY	718/384-4895
1390	SMART	JONATHAN	NEW YORK	NY	718/383-1141
1332	STEPHENSON	ADAM	BRIDGEPORT	CT	203/675-1497
1890	STEPHENSON	ROBERT	NEW YORK	NY	718/384-9874
1429	THOMPSON	ALICE	STAMFORD	CT	203/781-3857
1107	THOMPSON	WAYNE	NEW YORK	NY	718/384-3785
1908	TRENTON	MELISSA	NEW YORK	NY	212/586-6262
1830	TRIPP	KATHY	BRIDGEPORT	CT	203/675-2479
1882	TUCKER	ALAN	NEW YORK	NY	718/384-0216
1050	TUTTLE	THOMAS	WHITE PLAINS	NY	914/455-2119

1425	UNDERWOOD	JENNY	STAMFORD	CT	203/781-0978
1928	UPCHURCH	LARRY	WHITE PLAINS	NY	914/455-5009
1480	UPDIKE	THERESA	NEW YORK	NY	212/587-8729
1100	VANDEUSEN	RICHARD	NEW YORK	NY	212/586-2531
1995	VARNER	ELIZABETH	NEW YORK	NY	718/384-7113
1135	VEGA	ANNA	NEW YORK	NY	718/384-5913
1415	VEGA	FRANKLIN	NEW YORK	NY	718/384-2823
1076	VENTER	RANDALL	NEW YORK	NY	718/383-2321
1426	VICK	THERESA	PRINCETON	NJ	201/812-2424
1564	WALTERS	ANNE	NEW YORK	NY	212/587-3257
1221	WALTERS	DIANE	NEW YORK	NY	718/384-1918
1133	WANG	CHIN	NEW YORK	NY	212/587-1956
1435	WARD	ELAINE	NEW YORK	NY	718/383-4987
1418	WATSON	BERNARD	NEW YORK	NY	718/383-1298
1017	WELCH	DARIUS	NEW YORK	NY	212/586-5535
1443	WELLS	AGNES	STAMFORD	CT	203/781-5546
1131	WELLS	NADINE	NEW YORK	NY	718/383-1045
1427	WHALEY	CAROLYN	MT. VERNON	NY	914/468-4528
1036	WONG	LESLIE	NEW YORK	NY	212/587-2570
1130	WOOD	DEBORAH	NEW YORK	NY	212/587-0013
1127	WOOD	SANDRA	NEW YORK	NY	212/587-2881
1433	YANCEY	ROBIN	PRINCETON	NJ	201/812-1874
1431	YOUNG	DEBORAH	STAMFORD	CT	203/781-2987
1122	YOUNG	JOANN	NEW YORK	NY	718/384-2021
1105	YOUNG	LAWRENCE	NEW YORK	NY	718/384-0008

;

---

## PROCLIB.SUPERV

```

data proclib.superv;
  input supid $4. +8 state $2. +5 jobcat $2.;
  label supid='Supervisor Id' jobcat='Job Category';
  datalines;
1677      CT      BC
1834      NY      BC
1431      CT      FA
1433      NJ      FA
1983      NY      FA
1385      CT      ME
1420      NJ      ME
1882      NY      ME
1935      CT      NA
1417      NJ      NA
1352      NY      NA
1106      CT      PT
1442      NJ      PT
1118      NY      PT
1405      NJ      SC
1564      NY      SC
1639      CT      TA
1401      NJ      TA

```

```

1126      NY      TA
;

```

---

## RADIO

This DATA step uses an INFILE statement to read data that are stored in an external file.

```

data radio;
  infile 'input-file' missover;
  input /(time1-time7) ($1. +1);
  listener=_n_;
run;

```

Here are the data that are in the external file:

```

967 32 f 5 3 5
7 5 5 5 7 0 0 0 8 7 0 0 8 0
781 30 f 2 3 5
5 0 0 0 5 0 0 0 4 7 5 0 0 0
859 39 f 1 0 5
1 0 0 0 1 0 0 0 0 0 0 0 0 0
859 40 f 6 1 5
7 5 0 5 7 0 0 0 0 0 0 5 0 0
467 37 m 2 3 1
1 5 5 5 5 4 4 8 8 0 0 0 0 0
220 35 f 3 1 7
7 0 0 0 7 0 0 0 7 0 0 0 0 0
833 42 m 2 2 4
7 0 0 0 7 5 4 7 4 0 1 4 4 0
967 39 f .5 1 7
7 0 0 0 7 7 0 0 0 0 0 0 8 0
677 28 m .5 .5 7
7 0 0 0 0 0 0 0 0 0 0 0 0 0
833 28 f 3 4 1
1 0 0 0 0 1 1 1 1 0 0 0 1 1
677 24 f 3 1 2
2 0 0 0 0 0 0 2 0 8 8 0 0 0
688 32 m 5 2 4
5 5 0 4 8 0 0 5 0 8 0 0 0 0
542 38 f 6 8 5
5 0 0 5 5 5 0 5 5 5 5 5 0
677 27 m 6 1 1
1 1 0 4 4 0 0 1 4 0 0 0 0 0
779 37 f 2.5 4 7
7 0 0 0 7 7 0 7 7 4 4 7 8 0
362 31 f 1 2 2
8 0 0 0 8 0 0 0 0 0 8 8 0 0
859 29 m 10 3 4
4 4 0 2 2 0 0 4 0 0 0 4 4 0
467 24 m 5 8 1
7 1 1 1 7 1 1 0 1 7 1 1 1 1
851 34 m 1 2 8

```

```
0 0 0 0 8 0 0 0 4 0 0 0 8 0
859 23 f 1 1 8
8 0 0 0 8 0 0 0 0 0 0 0 8
781 34 f 9 3 1
2 1 0 1 4 4 4 0 1 1 1 1 4 4
851 40 f 2 4 5
5 0 0 0 5 0 0 5 0 0 5 5 0 0
783 34 m 3 2 4
7 0 0 0 7 4 4 0 0 4 4 0 0 0
848 29 f 4 1.5 7
7 4 4 1 7 0 0 0 7 0 0 7 0 0
851 28 f 1 2 2
2 0 2 0 2 0 0 0 0 2 2 2 0 0
856 42 f 1.5 1 2
2 0 0 0 0 0 0 2 0 0 0 0 0 0
859 29 m .5 .5 5
5 0 0 0 1 0 0 0 0 0 8 8 5 0
833 29 m 1 3 2
2 0 0 0 2 2 0 0 4 2 0 2 0 0
859 23 f 10 3 1
1 5 0 8 8 1 4 0 1 1 1 1 1 4
781 37 f .5 2 7
7 0 0 0 1 0 0 0 1 7 0 1 0 0
833 31 f 5 4 1
1 0 0 0 1 0 0 0 4 0 4 0 0 0
942 23 f 4 2 1
1 0 0 0 1 0 1 0 1 1 0 0 0 0
848 33 f 5 4 1
1 1 0 1 1 0 0 0 1 1 1 0 0 0
222 33 f 2 0 1
1 0 0 0 1 0 0 0 0 0 0 0 0 0
851 45 f .5 1 8
8 0 0 0 8 0 0 0 0 0 8 0 0 0
848 27 f 2 4 1
1 0 0 0 1 1 0 0 4 1 1 1 1 1
781 38 m 2 2 1
5 0 0 0 1 0 0 0 0 0 1 1 0 0
222 27 f 3 1 2
2 0 2 0 2 2 0 0 2 0 0 0 0 0
467 34 f 2 2 1
1 0 0 0 0 1 0 1 0 0 0 0 1 0
833 27 f 8 8 1
7 0 1 0 7 4 0 0 1 1 1 4 1 0
677 49 f 1.5 0 8
8 0 8 0 8 0 0 0 0 0 0 0 0 0
849 43 m 1 4 1
1 0 0 0 4 0 0 0 4 0 1 0 0 0
467 28 m 2 1 7
7 0 0 0 7 0 0 7 0 0 1 0 0 0
732 29 f 1 0 2
2 0 0 0 2 0 0 0 0 0 0 0 0 0
851 31 m 2 2 2
2 5 0 6 0 0 8 0 2 2 8 2 0 0
779 42 f 8 2 2
```

7 2 0 2 7 0 0 0 0 0 0 0 2 0  
 493 40 m 1 3 3  
 3 0 0 0 5 3 0 5 5 0 0 0 1 1  
 859 30 m 1 0 7  
 7 0 0 0 7 0 0 0 0 0 0 0 0 0  
 833 36 m 4 2 5  
 7 5 0 5 0 5 0 0 7 0 0 0 5 0  
 467 30 f 1 4 1  
 0 0 0 0 1 0 6 0 0 1 1 1 0 6  
 859 32 f 3 5 2  
 2 2 2 2 2 2 6 6 2 2 2 2 2 6  
 851 43 f 8 1 5  
 7 5 5 5 0 0 0 4 0 0 0 0 0 0  
 848 29 f 3 5 1  
 7 0 0 0 7 1 0 0 1 1 1 1 1 0  
 833 25 f 2 4 5  
 7 0 0 0 5 7 0 0 7 5 0 0 5 0  
 783 33 f 8 3 8  
 8 0 8 0 7 0 0 0 8 0 5 4 0 5  
 222 26 f 10 2 1  
 1 1 0 1 1 0 0 0 3 1 1 0 0 0  
 222 23 f 3 2 2  
 2 2 2 2 7 0 0 2 2 0 0 0 0 0  
 859 50 f 1 5 4  
 7 0 0 0 7 0 0 5 4 4 4 7 0 0  
 833 26 f 3 2 1  
 1 0 0 1 1 0 0 5 5 0 1 0 0 0  
 467 29 m 7 2 1  
 1 1 1 1 1 0 0 1 1 1 0 0 0 0  
 859 35 m .5 2 2  
 7 0 0 0 2 0 0 7 5 0 0 4 0 0  
 833 33 f 3 3 6  
 7 0 0 0 6 8 0 8 0 0 0 8 6 0  
 221 36 f .5 1 5  
 0 7 0 0 0 7 0 0 7 0 0 7 7 0  
 220 32 f 2 4 5  
 5 0 5 0 5 5 5 0 5 5 5 5 5 5  
 684 19 f 2 4 2  
 0 2 0 2 0 0 0 0 0 2 2 0 0 0  
 493 55 f 1 0 5  
 5 0 0 5 0 0 0 0 7 0 0 0 0 0  
 221 27 m 1 1 7  
 7 0 0 0 0 0 0 0 5 0 0 0 5 0  
 684 19 f 0 .5 1  
 7 0 0 0 0 1 1 0 0 0 0 0 1 1  
 493 38 f .5 .5 5  
 0 8 0 0 5 0 0 0 5 0 0 0 0 0  
 221 26 f .5 2 1  
 0 1 0 0 0 1 0 0 5 5 5 1 0 0  
 684 18 m 1 .5 1  
 0 2 0 0 0 0 1 0 0 0 0 1 1 0  
 684 19 m 1 1 1  
 0 0 0 1 1 0 0 0 0 0 1 0 0 0  
 221 29 m .5 .5 5



```
0 0 0 0 0 5 5 0 0 0 0 0 5 5
683 18 f 2 4 8
0 0 0 0 8 0 0 0 8 8 8 0 0 0
966 23 f 1 2 1
1 5 5 5 1 0 0 0 0 1 0 0 1 0
493 25 f 3 5 7
7 0 0 0 7 2 0 0 7 0 2 7 7 0
683 18 f .5 .5 2
1 0 0 0 0 0 5 0 0 1 0 0 0 1
382 21 f 3 1 8
0 8 0 0 5 8 8 0 0 8 8 0 0 0
683 18 f 4 6 2
2 0 0 0 2 2 2 0 2 0 2 2 2 0
684 19 m .5 2 1
0 0 0 0 1 1 0 0 0 1 1 1 1 5
684 19 m 1.5 3.5 2
2 0 0 0 2 0 0 0 0 0 2 5 0 0
221 23 f 1 5 1
7 5 1 5 1 3 1 7 5 1 5 1 3 1
684 18 f 2 3 1
2 0 0 1 1 1 1 7 2 0 1 1 1 1
683 19 f 3 5 2
2 0 0 2 0 6 1 0 1 1 2 2 6 1
683 19 f 3 5 1
2 0 0 2 0 6 1 0 1 1 2 0 2 1
221 35 m 3 5 5
7 5 0 1 7 0 0 5 5 5 0 0 0 0
221 43 f 1 4 5
1 0 0 0 5 0 0 5 5 0 0 0 0 0
493 32 f 2 1 6
0 0 0 6 0 0 0 0 0 0 0 0 4 0
221 24 f 4 5 2
2 0 5 0 0 2 4 4 4 5 0 0 2 2
684 19 f 2 3 2
0 5 5 2 5 0 1 0 5 5 2 2 2 2
221 19 f 3 3 8
0 1 1 8 8 8 4 0 5 4 1 8 8 4
221 29 m 1 1 5
5 5 5 5 5 5 5 5 5 5 5 5 5
221 21 m 1 1 1
1 0 0 0 0 0 5 1 0 0 0 0 0 5
683 20 f 1 2 2
0 0 0 0 2 0 0 0 2 0 0 0 0 0
493 54 f 1 1 5
7 0 0 5 0 0 0 0 0 0 5 0 0 0
493 45 m 4 6 5
7 0 0 0 7 5 0 0 5 5 5 5 5 5
850 44 m 2.5 1.5 7
7 0 7 0 4 7 5 0 5 4 3 0 0 4
220 33 m 5 3 5
1 5 0 5 1 0 0 0 0 0 0 0 5 5
684 20 f 1.5 3 1
1 0 0 0 1 0 1 0 1 0 0 1 1 0
966 63 m 3 5 3
```

5 4 7 5 4 5 0 5 0 0 5 5 4 0  
683 21 f 4 6 1  
0 1 0 1 1 1 1 0 1 1 1 1 1 1  
493 23 f 5 2 5  
7 5 0 4 0 0 0 0 1 1 1 1 1 0  
493 32 f 8 8 5  
7 5 0 0 7 0 5 5 5 0 0 7 5 5  
942 33 f 7 2 5  
0 5 5 4 7 0 0 0 0 0 0 7 8 0  
493 34 f .5 1 5  
5 0 0 0 5 0 0 0 0 0 6 0 0 0  
382 40 f 2 2 5  
5 0 0 0 5 0 0 5 0 0 5 0 0 0  
362 27 f 0 3 8  
0 0 0 0 0 0 0 0 0 0 0 0 8 0  
542 36 f 3 3 7  
7 0 0 0 7 1 0 0 0 7 1 1 0 0  
966 39 f 3 6 5  
7 0 0 0 7 5 0 0 7 0 5 0 5 0  
849 32 m 1 .5 7  
7 0 0 0 5 0 0 0 7 4 4 5 7 0  
677 52 f 3 2 3  
7 0 0 0 0 7 0 0 0 7 0 0 3 0  
222 25 m 2 4 1  
1 0 0 0 1 0 0 0 1 0 1 0 0 0  
732 42 f 3 2 7  
7 0 0 0 1 7 5 5 7 0 0 3 4 0  
467 26 f 4 4 1  
7 0 1 0 7 1 0 0 7 7 4 7 0 0  
467 38 m 2.5 0 1  
1 0 0 0 1 0 0 0 0 0 0 0 0 0  
382 37 f 1.5 .5 7  
7 0 0 0 7 0 0 0 3 0 0 0 3 0  
856 45 f 3 3 7  
7 0 0 0 7 5 0 0 7 7 4 0 0 0  
677 33 m 3 2 7  
7 0 0 4 7 0 0 0 7 0 0 0 0 0  
490 27 f .5 1 2  
2 0 0 0 2 0 0 0 2 0 2 0 0 0  
362 27 f 1.5 2 2  
2 0 0 0 1 0 4 0 1 0 0 0 4 4  
783 25 f 2 1 1  
1 0 0 0 1 7 0 0 0 0 1 1 1 0  
546 30 f 8 3 1  
1 1 1 1 1 0 0 1 0 5 5 0 0 0  
677 30 f 2 0 1  
1 0 0 0 0 1 0 0 0 0 0 0 0 1  
221 35 f 2 2 1  
1 0 0 0 1 0 1 0 1 1 1 0 0 0  
966 32 f 6 1 7  
7 1 1 1 7 4 0 1 7 1 8 8 4 0  
222 28 f 1 5 4  
7 0 0 0 4 0 0 4 4 4 4 0 0 0  
467 29 f 5 3 4

```

4 5 5 5 1 4 4 5 1 1 1 1 4 4
467 32 m 3 4 1
1 0 1 0 4 0 0 0 4 0 0 0 1 0
966 30 m 1.5 1 7
7 0 0 0 7 5 0 7 0 0 0 0 5 0
967 38 m 14 4 7
7 7 7 7 7 0 4 8 0 0 0 0 4 0
490 28 m 8 1 1
7 1 1 1 1 0 0 7 0 0 8 0 0 0
833 30 f .5 1 6
6 0 0 0 6 0 0 0 0 6 0 0 6 0
851 40 m 1 0 7
7 5 5 5 7 0 0 0 0 0 0 0 0 0
859 27 f 2 5 2
6 0 0 0 2 0 0 0 0 0 0 2 2 2
851 22 f 3 5 2
7 0 2 0 2 2 0 0 2 0 8 0 2 0
967 38 f 1 1.5 7
7 0 0 0 7 5 0 7 4 0 0 7 5 0
856 34 f 1.5 1 1
0 1 0 0 0 1 0 0 4 0 0 0 0 0
222 33 m .1 .1 7
7 0 0 0 7 0 0 0 0 0 7 0 0 0
856 22 m .50 .25 1
0 1 0 0 1 0 0 0 0 0 0 0 0 0
677 30 f 2 2 4
1 0 4 0 4 0 0 0 4 0 0 0 0 0
859 25 m 2 3 7
0 0 0 0 0 7 0 0 7 0 2 0 0 1
833 35 m 2 6 7
7 0 0 0 7 1 1 0 4 7 4 7 1 1
677 35 m 10 4 1
1 1 1 1 1 8 6 8 1 0 0 8 8 8
848 29 f 5 3 8
8 0 0 0 8 8 0 0 0 8 8 8 0 0
688 26 m 3 1 1
1 1 7 1 1 7 0 0 0 8 8 0 0 0
490 41 m 2 2 5
5 0 0 0 0 0 5 5 0 0 0 0 0 5
493 35 m 4 4 7
7 5 0 5 7 0 0 7 7 7 7 0 0 0
677 27 m 15 11 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1
848 27 f 3 5 1
1 1 0 0 1 1 0 0 1 1 1 1 0 0
362 30 f 1 0 1
1 0 0 0 7 5 0 0 0 0 0 0 0 0
783 29 f 1 1 4
4 0 0 0 4 0 0 0 4 0 0 0 4 0
467 39 f .5 2 4
7 0 4 0 4 4 0 0 4 4 4 4 4 4
677 27 m 2 2 7
7 0 0 0 7 0 0 7 7 0 0 7 0 0
221 23 f 2.5 1 1

```

1 0 0 0 1 0 0 0 0 0 0 0 0 0  
 677 29 f 1 1 7  
 0 0 0 0 7 0 0 0 7 0 0 0 0 0  
 783 32 m 1 2 5  
 4 5 5 5 4 2 0 0 0 0 3 2 2 0  
 833 25 f 1 0 1  
 1 1 0 0 0 0 0 0 0 0 0 0 0 0  
 859 24 f 7 3 7  
 1 0 0 0 1 0 0 0 0 1 0 0 1 0  
 677 29 m 2 2 8  
 0 8 8 0 8 0 0 0 8 8 8 0 0 0  
 688 31 m 8 2 5  
 7 5 5 5 5 7 0 0 7 7 0 0 0 0  
 856 31 m 9 4 1  
 1 1 1 1 1 0 0 0 0 0 0 0 1 0  
 856 44 f 1 0 6  
 6 0 0 0 6 0 0 0 0 0 0 0 0 0  
 677 37 f 3 3 1  
 0 0 1 0 0 0 0 0 4 4 0 0 0 0  
 859 27 m 2 .5 2  
 2 2 2 2 2 2 2 2 0 0 0 0 0 2  
 781 30 f 10 4 2  
 2 0 0 0 2 0 2 0 0 0 0 0 0 2  
 362 27 m 12 4 3  
 3 1 1 1 1 3 3 3 0 0 0 0 3 0  
 362 33 f 2 4 1  
 1 0 0 0 7 0 0 7 1 1 1 1 1 0  
 222 26 f 8 1 1  
 1 1 1 1 0 0 0 1 0 0 0 0 0 0  
 779 37 f 6 3 1  
 1 1 1 1 1 0 0 1 1 0 0 0 1 0  
 467 32 f 1 1 2  
 2 0 0 0 0 0 0 0 2 0 0 2 0 0  
 859 23 m 1 1 1  
 1 0 0 0 1 1 0 1 0 0 0 0 1 1  
 781 33 f 1 .5 6  
 6 0 0 0 6 0 0 0 0 0 0 0 0 0  
 779 28 m 5 2 1  
 1 1 1 1 1 0 0 0 0 7 7 1 1 0  
 677 28 m 3 1 5  
 7 5 5 5 5 6 0 0 6 6 6 6 6 0  
 677 25 f 9 2 5  
 1 5 5 5 5 1 1 0 1 1 1 1 1 1  
 848 30 f 6 2 8  
 8 0 0 0 2 7 0 0 0 0 2 0 2 0  
 546 36 f 4 6 4  
 7 0 0 0 4 4 0 5 5 5 5 2 4 4  
 222 30 f 2 3 2  
 2 2 0 0 2 0 0 0 2 0 2 2 0 0  
 383 32 m 4 1 2  
 2 0 0 0 2 0 0 2 0 0 0 0 0 0  
 851 43 f 8 1 6  
 4 6 0 6 4 0 0 0 0 0 0 0 0 0  
 222 27 f 1 3 1

```

1 1 0 1 1 1 0 0 1 0 0 0 4 0
833 22 f 1.5 2 1
1 0 0 0 1 1 0 0 1 1 1 0 0 0
467 29 f 2 1 8
8 0 8 0 8 0 0 0 0 0 8 0 0 0
856 28 f 2 3 1
1 0 0 0 1 0 0 0 1 0 0 1 0 0
580 31 f 2.5 2.5 6
6 6 6 6 6 6 6 6 1 1 1 1 6 6
688 39 f 8 8 3
3 3 3 3 3 3 3 3 3 3 3 3 3
677 37 f 1.5 .5 1
6 1 1 1 6 6 0 0 1 1 6 6 6 0
859 38 m 3 6 3
7 0 0 0 7 3 0 0 3 0 3 0 0 0
677 25 f 7 1 1
0 1 1 1 2 0 0 0 1 2 1 1 1 0
848 36 f 7 1 1
0 1 0 1 1 0 0 0 0 0 0 1 1 0
781 31 f 2 4 1
1 0 0 0 1 1 0 1 1 1 1 1 0 0
781 40 f 2 2 8
8 0 0 8 8 0 0 0 0 0 8 8 0 0
677 25 f 3 5 1
1 6 1 6 6 3 0 0 2 2 1 1 1 1
779 33 f 3 2 1
1 0 1 0 0 0 1 0 1 0 0 0 1 0
677 25 m 7 1.5 1
1 1 0 1 1 0 0 0 0 0 1 0 0 0
362 35 f .5 0 1
1 0 0 0 1 0 0 0 0 0 0 0 0 0
677 41 f 6 2 7
7 7 0 7 7 0 0 0 0 0 8 0 0 0
677 24 m 5 1 5
1 5 0 5 0 0 0 0 1 0 0 0 0 0
833 29 f .5 0 6
6 0 0 0 6 0 0 0 0 0 0 0 0 0
362 30 f 1 1 1
1 0 0 0 1 0 0 0 1 0 0 0 0 0
850 26 f 6 12 6
6 0 0 0 2 2 2 6 6 6 0 0 6 6
467 25 f 2 3 1
1 0 0 6 1 1 0 0 0 0 1 1 1 1
967 29 f 1 2 7
7 0 0 0 7 0 0 7 7 0 0 0 0 0
833 31 f 1 1 7
7 0 7 0 7 3 0 0 3 3 0 0 0 0
859 40 f 7 1 5
1 5 0 5 5 1 0 0 1 0 0 0 0 0
848 31 m 1 2 1
1 0 0 0 1 1 0 0 4 4 1 4 0 0
222 32 f 2 3 3
3 0 0 0 0 7 0 0 3 0 8 0 0 0
783 33 f 2 0 4

```

7 0 0 0 7 0 0 0 4 0 4 0 0 0  
856 28 f 8 4 2  
0 2 0 2 2 0 0 0 2 0 2 0 4 0  
781 30 f 3 5 1  
1 1 1 1 1 1 0 0 1 1 1 1 1 0  
850 25 f 6 3 1  
7 5 0 5 7 1 0 0 7 0 1 0 1 0  
580 33 f 2.5 4 2  
2 0 0 0 2 0 0 0 0 0 8 8 0 0  
677 38 f 3 3 1  
1 0 0 0 1 0 1 1 1 0 1 0 0 4  
677 26 f 2 2 1  
1 0 1 0 1 0 0 0 1 1 1 0 0 0  
467 52 f 3 2 2  
2 6 6 6 6 2 0 0 2 2 2 2 0 0  
542 31 f 1 3 1  
1 0 1 0 1 0 0 0 1 1 1 1 1 0  
859 50 f 9 3 6  
6 6 6 6 6 6 6 6 6 3 3 3 6 6  
779 26 f 1 2 1  
7 0 1 0 1 1 4 1 4 1 1 1 4 4  
779 36 m 1.5 2 4  
1 4 0 4 4 0 0 4 4 4 4 0 0 0  
222 31 f 0 3 7  
1 0 0 0 7 0 0 0 0 0 0 0 0 0  
362 27 f 1 1 1  
1 0 1 0 1 4 0 4 4 1 0 4 4 0  
967 32 f 3 2 7  
7 0 0 0 7 0 0 0 1 0 0 1 0 0  
362 29 f 10 2 2  
2 2 2 2 2 2 2 2 2 2 2 7 0 0  
677 27 f 3 4 1  
0 5 1 1 0 5 0 0 0 1 1 1 0 0  
546 32 m 5 .5 8  
8 0 0 0 8 0 0 0 8 0 0 0 0 0  
688 38 m 2 3 2  
2 0 0 0 2 0 0 0 2 0 0 0 1 0  
362 28 f 1 1 1  
1 0 0 0 1 1 0 4 0 0 0 0 4 0  
851 32 f .5 2 4  
5 0 0 0 4 0 0 0 0 0 0 0 2 0  
967 43 f 2 2 1  
1 0 0 0 1 0 0 1 7 0 0 0 1 0  
467 44 f 10 4 6  
7 6 0 6 6 0 6 0 0 0 0 0 0 6  
467 23 f 5 3 1  
0 2 1 2 1 0 0 0 1 1 1 1 1 1  
783 30 f 1 .5 1  
1 0 0 0 1 0 0 0 0 0 0 7 0 0  
677 29 f 3 1 2  
2 2 2 2 2 0 0 0 0 0 0 0 0  
859 26 f 9.5 1.5 2  
2 2 2 2 2 0 0 2 2 0 0 0 0  
222 28 f 3 0 2

```
2 0 0 0 2 0 0 0 0 0 2 0 0 0
966 37 m 2 1 1
7 1 1 1 7 0 0 0 7 0 0 0 0 0
859 31 f 10 10 1
0 1 1 1 1 0 0 0 1 1 0 0 1 0
781 27 f 2 1 2
2 0 0 0 1 0 0 0 4 0 0 0 0 0
677 31 f .5 .5 6
7 0 0 0 0 0 0 0 6 0 0 0 0 0
848 28 f 5 1 2
2 2 0 2 0 0 0 0 2 0 0 0 0 0
781 24 f 3 3 6
1 6 6 6 1 6 0 0 0 0 1 0 1 1
856 27 f 1.5 1 6
2 6 6 6 2 5 0 2 0 0 5 2 0 0
382 30 m 1 2 7
7 0 0 0 7 0 4 7 0 0 0 7 4 4
848 25 f 9 3 1
7 1 1 5 1 0 0 0 1 1 1 1 1 0
382 30 m 1 2 4
7 0 0 0 7 0 4 7 0 0 0 7 4 4
688 40 m 2 3 1
1 0 0 0 1 3 1 0 5 0 4 4 7 1
856 40 f .5 5 5
3 0 0 0 3 0 0 0 0 0 5 5 0 0
966 25 f 2 .5 2
1 0 0 0 2 6 0 0 4 0 0 0 0 0
859 30 f 2 4 2
2 0 0 0 0 2 0 0 0 0 2 0 0 0
849 29 m 10 1 5
7 5 5 5 7 5 5 0 0 0 0 0 7 0
781 28 m 1.5 3 4
1 0 0 0 1 4 4 0 4 4 1 1 4 0
467 35 f 4 2 6
7 6 7 6 6 7 6 7 7 7 7 7 6
222 32 f 10 5 1
1 1 0 1 1 0 0 1 1 1 0 0 1 0
677 32 f 1 0 1
1 0 1 0 0 0 0 0 0 0 0 0 0 0
222 54 f 21 4 3
5 0 0 0 7 0 0 7 0 0 0 0 0 0
677 30 m 4 6 1
7 0 0 0 0 1 1 1 7 1 1 0 8 1
683 29 f 1 2 8
8 0 0 0 8 0 0 0 0 8 8 0 0 0
467 38 m 3 5 1
1 0 0 0 1 0 0 1 1 0 0 0 0 0
781 29 f 2 3 8
8 0 0 0 8 8 0 0 8 8 0 8 8 0
781 30 f 1 0 5
5 0 0 0 0 5 0 0 0 0 0 0 0 0
783 40 f 1.5 3 1
1 0 0 0 1 4 0 0 1 1 1 0 0 0
851 30 f 1 1 6
```

6 0 0 0 6 0 0 0 6 0 0 6 0 0  
851 40 f 1 1 5  
5 0 0 0 5 0 0 0 0 1 0 0 0 0  
779 40 f 1 0 2  
2 0 0 0 2 0 0 0 0 0 0 0 0 0  
467 37 f 4 8 1  
1 0 0 0 1 0 3 0 3 1 1 1 0 0  
859 37 f 4 3 3  
0 3 7 0 0 7 0 0 0 7 8 3 7 0  
781 26 f 4 1 2  
2 2 0 2 1 0 0 0 2 0 0 0 0 0  
859 23 f 8 3 3  
3 2 0 2 3 0 0 0 1 0 0 3 0 0  
967 31 f .5 0 1  
1 0 0 0 0 0 0 0 0 0 0 0 0 0  
851 38 m 4 2 5  
7 5 0 5 4 0 4 7 7 0 4 0 8 0  
467 30 m 2 1 2  
2 2 0 2 0 0 0 0 2 0 2 0 0 0  
848 33 f 2 2 7  
7 0 0 0 0 7 0 7 7 0 0 0 7 0  
688 35 f 5 8 3  
2 2 2 2 2 0 0 3 3 3 3 3 0 0  
467 27 f 2 3 1  
1 0 1 0 0 1 0 0 1 1 1 0 0 0  
783 42 f 3 1 1  
1 0 0 0 1 0 0 0 1 0 1 1 0 0  
687 40 m 1.5 2 1  
7 0 0 0 1 1 0 0 1 0 7 0 1 0  
779 30 f 4 8 7  
7 0 0 0 7 0 6 7 4 2 2 0 0 6  
222 34 f 9 0 8  
8 2 0 2 8 0 0 0 0 0 0 0 0 0  
467 28 m 3 1 2  
2 0 0 0 2 2 0 0 0 2 2 0 0 0  
222 28 f 8 4 2  
1 2 1 2 2 0 0 1 2 2 0 0 2 0  
542 35 m 2 3 2  
6 0 7 0 7 0 7 0 0 0 2 2 0 0  
677 31 m 12 4 3  
7 3 0 3 3 4 0 0 4 4 4 0 0 0  
783 45 f 1.5 2 6  
6 0 0 0 6 0 0 6 6 0 0 0 0 0  
942 34 f 1 .5 4  
4 0 0 0 1 0 0 0 0 0 2 0 0 0  
222 30 f 8 4 1  
1 1 1 1 1 0 0 0 1 1 0 0 0 0  
967 38 f 1.5 2 7  
7 0 0 0 7 0 0 7 1 1 1 1 0 0  
783 37 f 2 1 1  
6 6 1 1 6 6 0 0 6 1 1 1 6 0  
467 31 f 1.5 2 2  
2 0 7 0 7 0 0 7 7 0 0 0 7 0  
859 48 f 3 0 7



7 0 0 0 0 0 0 0 0 7 0 0 0 0  
490 35 f 1 1 7  
7 0 0 0 7 0 0 0 0 0 0 0 8 0  
222 27 f 3 2 3  
8 0 0 0 3 8 0 3 3 0 0 0 0 0  
382 36 m 3 2 4  
7 0 5 4 7 4 4 0 7 7 4 7 0 4  
859 37 f 1 1 2  
7 0 0 0 0 2 0 2 2 0 0 0 0 2  
856 29 f 3 1 1  
1 0 0 0 1 1 1 1 0 0 1 1 0 1  
542 32 m 3 3 7  
7 0 0 0 0 7 7 7 0 0 0 0 7 7  
783 31 m 1 1 1  
1 0 0 0 1 0 0 0 1 1 1 0 0 0  
833 35 m 1 1 1  
5 4 1 5 1 0 0 1 1 0 0 0 0 0  
782 38 m 30 8 5  
7 5 5 5 5 0 0 4 4 4 4 4 0 0  
222 33 m 3 3 1  
1 1 1 1 1 1 1 1 4 1 1 1 1 1  
467 24 f 2 4 1  
0 0 1 0 1 0 0 0 1 1 1 0 0 0  
467 34 f 1 1 1  
1 0 0 0 1 0 0 1 1 0 0 0 0 0  
781 53 f 2 1 5  
5 0 0 0 5 5 0 0 0 0 5 5 5 0  
222 30 m 2 5 3  
6 3 3 3 6 0 0 0 3 3 3 3 0 0  
688 26 f 2 2 1  
1 0 0 0 1 0 0 0 1 0 1 1 0 0  
222 29 m 8 5 1  
1 6 0 6 1 0 0 1 1 1 1 0 0 0  
783 33 m 1 2 7  
7 0 0 0 7 0 0 0 7 0 0 0 7 0  
781 39 m 1.5 2.5 2  
2 0 2 0 2 0 0 0 2 2 2 0 0 0  
850 22 f 2 1 1  
1 0 0 0 1 1 1 0 5 0 0 1 0 0  
493 36 f 1 0 5  
0 0 0 0 7 0 0 0 0 0 0 0 0 0  
967 46 f 2 4 7  
7 5 0 5 7 0 0 0 4 7 4 0 0 0  
856 41 m 2 2 4  
7 4 0 0 7 4 0 4 0 0 0 7 0 0  
546 25 m 5 5 8  
8 8 0 0 0 0 0 0 0 0 0 0 0 0  
222 27 f 4 4 3  
2 2 2 3 7 7 0 2 2 2 3 3 3 0  
688 23 m 9 3 3  
3 3 3 3 3 7 0 0 3 0 0 0 0 0  
849 26 m .5 .5 8  
8 0 0 0 8 0 0 0 0 8 0 0 0 0  
783 29 f 3 3 1

```

1 0 0 0 4 0 0 4 1 0 1 0 0 0
856 34 f 1.5 2 1
7 0 0 0 7 0 0 7 4 0 0 7 0 0
966 33 m 3 5 4
7 0 0 0 7 4 5 0 7 0 0 7 4 4
493 34 f 2 5 1
1 0 0 0 1 0 0 0 7 0 1 1 8 0
467 29 m 2 4 2
2 0 0 0 2 0 0 2 2 2 2 2 2 2
677 28 f 1 4 1
1 1 1 1 1 0 0 0 1 0 1 0 0 0
781 27 m 2 2 1
1 0 1 0 4 2 4 0 2 2 1 0 1 4
467 24 m 4 4 1
7 1 0 1 1 1 0 7 1 0 0 0 0 0
859 26 m 5 5 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1
848 27 m 7 2 5
7 5 0 5 4 5 0 0 0 7 4 4 0 4
677 25 f 1 2 8
8 0 0 0 0 5 0 0 8 0 0 0 2 0
222 26 f 3.5 0 2
2 0 0 0 2 0 0 0 0 0 0 0 0 0
833 32 m 1 2 1
1 0 0 0 1 0 0 0 5 0 1 0 0 0
781 28 m 2 .5 7
7 0 0 0 7 0 0 0 4 0 0 0 0 0
783 28 f 1 1 1
1 0 0 0 1 0 0 0 0 0 1 1 0 0
222 28 f 5 5 2
2 6 6 2 2 0 0 0 2 2 0 0 2 2
851 33 m 4 5 3
1 0 0 0 7 3 0 3 3 3 3 3 7 5
859 39 m 2 1 1
1 0 0 0 1 0 0 0 0 0 0 1 0 0
848 45 m 2 2 7
7 0 0 0 7 0 0 0 7 0 0 0 0 0
467 37 m 2 2 7
7 0 0 0 0 7 0 0 0 7 0 0 7 0
859 32 m .25 .25 1
1 0 0 0 0 0 0 0 1 0 0 0 0 0

```

---

## STATEPOP

```

data statepop;
  input State $ CityPop_80 CityPop_90 NonCityPop_80 NonCityPop_90
  Region @@;
  label citypop_80= '1980 metropolitan pop in millions'
  noncitypop_80='1980 nonmetropolitan pop in millions'
  citypop_90= '1990 metropolitan pop in millions'
  noncitypop_90='1990 nonmetropolitan pop in million'

```

```

        region='Geographic region';
    datalines;
ME      .405      .443      .721      .785      1      NH      .535      .659      .386      .450      1
VT      .133      .152      .378      .411      1      MA      5.530      5.788      .207      .229      1
RI      .886      .938      .061      .065      1      CT      2.982      3.148      .126      .140      1
NY      16.144     16.515     1.414     1.475     1      NJ      7.365      7.730      .A        .A        1
PA      10.067     10.083     1.798     1.799     1      DE      .496      .553      .098      .113     2
MD      3.920      4.439      .297      .343     2      DC      .638      .607      .         .         2
VA      3.966      4.773     1.381     1.414     2      WV      .796      .748     1.155     1.045     2
NC      3.749      4.376     2.131     2.253     2      SC      2.114     2.423     1.006     1.064     2
GA      3.507      4.352     1.956     2.127     2      FL      9.039     12.023     .708     .915     2
KY      1.735      1.780     1.925     1.906     2      TN      3.045     3.298     1.546     1.579     2
AL      2.560      2.710     1.334     1.331     2      MS      .716      .776     1.805     1.798     2
AR      .963      1.040     1.323     1.311     2      LA      3.125     3.160     1.082     1.060     2
OK      1.724      1.870     1.301     1.276     2      TX     11.539     14.166     2.686     2.821     2
OH      8.791      8.826     2.007     2.021     3      IN      3.885     3.962     1.605     1.582     3
IL      9.461      9.574     1.967     1.857     3      MI      7.719     7.698     1.543     1.598     3
WI      3.176      3.331     1.530     1.561     3      MN      2.674     3.011     1.402     1.364     3
IA      1.198      1.200     1.716     1.577     3      MO      3.314     3.491     1.603     1.626     3
ND      .234      .257      .418      .381     3      SD      .194      .221     .497     .475     3
NE      .728      .787      .842      .791     3      KS      1.184     1.333     1.180     1.145     3
MT      .189      .191      .598      .608     4      ID      .257      .296     .687     .711     4
WY      .141      .134      .329      .319     4      CO      2.326     2.686     .563     .608     4
NM      .675      .842      .628      .673     4      AZ      2.264     3.106     .453     .559     4
UT      1.128      1.336     .333      .387     4      NV      .666     1.014     .135     .183     4
WA      3.366      4.036     .776      .830     4      OR      1.799     1.985     .834     .858     4
CA      22.907     28.799     .760      .961     4      AK      .174      .226     .227     .324     4
HI      .763      .836      .202      .272     4
;
run;

```



The correct bibliographic citation for this manual is as follows: SAS Institute Inc., SAS® *Procedures Guide, Version 8*, Cary, NC: SAS Institute Inc., 1999. 1729 pp.

**SAS® Procedures Guide, Version 8**

Copyright © 1999 by SAS Institute Inc., Cary, NC, USA.

ISBN 1-58025-482-9

All rights reserved. Printed in the United States of America. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, or otherwise, without the prior written permission of the publisher, SAS Institute Inc.

**U.S. Government Restricted Rights Notice.** Use, duplication, or disclosure of the software and related documentation by the U.S. government is subject to the Agreement with SAS Institute and the restrictions set forth in FAR 52.227-19 Commercial Computer Software-Restricted Rights (June 1987).

SAS Institute Inc., SAS Campus Drive, Cary, North Carolina 27513.

1st printing, October 1999

SAS® and all other SAS Institute Inc. product or service names are registered trademarks or trademarks of SAS Institute Inc. in the USA and other countries.® indicates USA registration.

IBM® and DB2® are registered trademarks or trademarks of International Business Machines Corporation. ORACLE® is a registered trademark of Oracle Corporation. ® indicates USA registration.

Other brand and product names are registered trademarks or trademarks of their respective companies.

The Institute is a private company devoted to the support and further development of its software and related services.