```
Problem 1.
data;
infile datalines dlm="," dsd missover;
      input X Y C :$20. Z;
datalines;
1,,"HELLO",7
2,4,TEXT,8
9,,,6
21,31,SHORT
100,200,"LAST LINE",999
;
proc print;
run;
```

Obs	X	Y	C	Z
1	1	.	HELLO	7
2	2	4	TEXT	8
3	9	.		6
4	21	31	SHORT	.
5	100	200	LAST LINE	999

PROBLEM 2.

```
option linesize=80 pagesize=60;
title 'HW1 problem 2: 12-5';
data a;
input subject $ 1-3 a1 $ 5 x 7-8 y 9-10 z 11-12;
datalines;
a12 x 111213
a13 w 102030
;
proc print;
run;
```

OBS	SUBJECT	A1	X	Y	Z
1	a12	x	11	12	13
2	a13	w	10	20	30

PROBLEM 3.

```
a) input group $ score;

b) input group $ score @@;
```

PROBLEM 4.

```
title 'HW1 problem4';
libname john 'c:\s597\';
data a;
```

```
infile 'c:\s597\data\Brain.dat';
input Gender $ FSIQ VIQ PIQ Weight Height mriCount;
braincat=1;
if mricount ge 800000 then braincat=2;
if mricount ge 900000 then braincat=3;
if mricount ge 1000000 then braincat=4;
if mricount=. then braincat=.;
meaniq=mean (of fsiq viq piq);
maxiq=max(of fsiq viq piq);
run;
proc sort;
by gender;
run;
proc print;
run;
data john.brain;
set a;
drop meaniq maxiq;
run;
/* part b */
proc contents data=john.brain;
proc print data=john.brain;
var gender braincat;
run;
/* part c */
data b;
infile 'c:\s597\data\Brain.dat';
input Gender $ FSIQ VIQ PIQ Weight Height mriCount;
if gender='Male' and height gt 70;
proc print;
run;
```

HW1 problem4

Obs	Gender	FSIQ	VIQ	PIQ	Weight	Height	mri Count	braincat	meaniq	maxiq
1	Female	133	132	124	118	64.5	816932	2	129.667	133
2	Female	137	132	134	147	65.0	951545	3	134.333	137
3	Female	99	90	110	146	69.0	928799	3	99.667	110
4	Female	138	136	131	138	64.5	991305	3	135.000	138
5	Female	92	90	98	175	66.0	854258	2	93.333	98
6	Female	132	129	124	118	64.5	833868	2	128.333	132
7	Female	140	120	147	155	70.5	856472	2	135.667	147
8	Female	96	100	90	146	66.0	878897	2	95.333	100
9	Female	83	71	96	135	68.0	865363	2	83.333	96
10	Female	132	132	120	127	68.5	852244	2	128.000	132
11	Female	101	112	84	136	66.3	808020	2	99.000	112
12	Female	135	129	134	122	62.0	790619	1	132.667	135
13	Female	91	86	102	114	63.0	831772	2	93.000	102
14	Female	85	90	84	140	68.0	798612	1	86.333	90
15	Female	77	83	72	106	63.0	793549	1	77.333	83
16	Female	130	126	124	159	66.5	866662	2	126.667	130

17	Female	133	126	132	127	62.5	857782	2	130.333	133
18	Female	83	90	81	143	66.5	834344	2	84.667	90
19	Female	133	129	128	153	66.5	948066	3	130.000	133
20	Female	88	86	94	139	64.5	893983	2	89.333	94
21	Male	140	150	124	.	72.5	1001121	4	138.000	150
22	Male	139	123	150	143	73.3	1038437	4	137.333	150
23	Male	133	129	128	172	68.8	965353	3	130.000	133
24	Male	89	93	84	134	66.3	904858	3	88.667	93
25	Male	133	114	147	172	68.8	955466	3	131.333	147
26	Male	141	150	128	151	70.0	1079549	4	139.667	150
27	Male	135	129	124	155	69.0	924059	3	129.333	135
28	Male	100	96	102	178	73.5	945088	3	99.333	102
29	Male	80	77	86	180	70.0	889083	2	81.000	86
30	Male	83	83	86	.	.	892420	2	84.000	86
31	Male	97	107	84	186	76.5	905940	3	96.000	107
32	Male	139	145	128	132	68.0	955003	3	137.333	145
33	Male	141	145	131	171	72.0	935494	3	139.000	145
34	Male	103	96	110	187	77.0	1062462	4	103.000	110
35	Male	144	145	137	191	67.0	949589	3	142.000	145
36	Male	103	96	110	192	75.5	997925	3	103.000	110
37	Male	90	96	86	181	69.0	879987	2	90.667	96
38	Male	140	150	124	144	70.5	949395	3	138.000	150
39	Male	81	90	74	148	74.0	930016	3	81.667	90
40	Male	89	91	89	179	75.5	935863	3	89.667	91

The CONTENTS Procedure

```
Data Set Name: JOHN.BRAIN                    Observations:         40
Member Type:   DATA                          Variables:            8
Engine:        V8                            Indexes:              0
Created:       11:16 Wednesday, September    Observation Length:   64
               19, 2001
Last Modified: 11:16 Wednesday, September    Deleted Observations: 0
               19, 2001
Protection:                                  Compressed:           NO
Data Set Type:                               Sorted:               NO
Label:

             -----Engine/Host Dependent Information-----
          Data Set Page Size:         8192
          Number of Data Set Pages:   1
          First Data Page:            1
          Max Obs per Page:           127
          Obs in First Data Page:     40
          Number of Data Set Repairs: 0
          File Name:                  c:\s597\brain.sas7bdat
          Release Created:            8.0000M0
          Host Created:               WIN_98

        -----Alphabetic List of Variables and Attributes-----
                 #    Variable    Type    Len    Pos
                 ------------------------------------
```

2	FSIQ	Num	8	0
1	Gender	Char	8	56
6	Height	Num	8	32
4	PIQ	Num	8	16
3	VIQ	Num	8	8
5	Weight	Num	8	24
8	braincat	Num	8	48
7	mriCount	Num	8	40

Obs	Gender	braincat
1	Female	2
2	Female	3
3	Female	3
4	Female	3
5	Female	2
6	Female	2
7	Female	2
8	Female	2
9	Female	2
10	Female	2
11	Female	2
12	Female	1
13	Female	2
14	Female	1
15	Female	1
16	Female	2
17	Female	2
18	Female	2
19	Female	3
20	Female	2
21	Male	4
22	Male	4
23	Male	3
24	Male	3
25	Male	3
26	Male	4
27	Male	3
28	Male	3
29	Male	2
30	Male	2
31	Male	3
32	Male	3
33	Male	3
34	Male	4
35	Male	3
36	Male	3
37	Male	2
38	Male	3
39	Male	3
40	Male	3

mri

Obs	Gender	FSIQ	VIQ	PIQ	Weight	Height	Count
1	Male	140	150	124	.	72.5	1001121
2	Male	139	123	150	143	73.3	1038437
3	Male	100	96	102	178	73.5	945088
4	Male	97	107	84	186	76.5	905940
5	Male	141	145	131	171	72.0	935494
6	Male	103	96	110	187	77.0	1062462
7	Male	103	96	110	192	75.5	997925
8	Male	140	150	124	144	70.5	949395
9	Male	81	90	74	148	74.0	930016
10	Male	89	91	89	179	75.5	935863

PROBLEM 5

```
title 'hw1-problem 5';
data rf;
infile 'rf2.dat';
input Name $ Age Status $ FamSize Nights Pig Cass FSpear FHook FOther OtherVer Total;
newtotal=Pig+Cass+FSpear+ FHook+ FOther+ OtherVer;
 /* NOTE THAT READING FAMSIZE AS NUMERIC, MEANS IT WILL AUTOMATICALLY PUT
A MISSING VALUE FOR THOSE CASES THAT HAVE THE NAME OF THE  OLDEST MEMBER INSTEAD
OF FAMILY SIZE */
totallb=total*2.2;  /* totallb = food in pounds 1KG = 2.2 LB */
proc print;
run;
```

hw1-problem 5

OBS	NAME	AGE	STATUS	FAMSIZE	NIGHTS	PIG	CASS	FSPEAR
1	Bisaeo	45	M	4	327	10.987	0.000	8.0769
2	Gugwi	45	M	2	363	1.452	0.000	54.0507
3	Wodai	45	W	2	43	0.000	0.000	0.0000
4	Mamo	40	M	4	310	169.849	107.260	11.6870
5	Simo	35	M	3	295	64.989	6.490	3.3335
6	Gwase	28	BM	5	346	99.959	11.383	10.3108
7	Tufa	25	BM	3	155	0.000	0.000	2.2475
8	Gwuho	25	B	.	136	6.242	0.000	1.9856
9	Filifi	25	B	.	274	289.673	9.426	30.6880
10	Sinio	22	M	2	267	169.919	43.868	52.1985
11	Maubo	20	Y	.	362	32.471	3.258	16.2176
12	Dogo	15	Y	2	314	42.735	0.000	11.8064
13	Hegogwa	15	Y	.	122	0.000	0.000	3.7820
14	Gawua	10	C	.	263	0.000	0.000	0.0000
15	Okre	3	C	.	355	0.000	0.000	0.0000

OBS	FHOOK	FOTHER	OTHERVER	TOTAL	NEWTOTAL	TOTALLB
1	2.4852	0.8829	13.3416	35.774	35.774	78.702
2	13.5762	13.6488	19.2390	101.967	101.967	224.327
3	12.1174	0.0000	1.2900	13.407	13.407	29.496
4	3.3790	0.1550	27.4040	319.734	319.734	703.415
5	21.8005	2.5960	28.5560	127.765	127.765	281.082
6	12.0062	5.0862	5.5360	144.282	144.282	317.420

7	2.6660	0.0155	2.6660	7.595	7.595	16.709
8	7.0856	1.3464	6.1880	22.848	22.848	50.266
9	0.9042	0.8220	14.4124	345.925	345.925	761.035
10	8.0100	0.1335	14.4180	288.547	288.547	634.803
11	27.9102	5.3938	12.1270	97.378	97.378	214.232
12	14.8522	0.2512	9.2630	78.908	78.908	173.598
13	15.8722	0.6466	1.8788	22.180	22.180	48.795
14	2.0251	0.0000	0.5260	2.551	2.551	5.612
15	0.0000	0.0000	0.0000	0.000	0.000	0.000