Stephen Hanna 109097796

HW6

Problem 1:

```
DATA toads;
INPUT ToadName $ Weight Jump1 Jump2 Jump3;
DATALINES;
Lucky 2.3 1.9 . 3.0
Spot 4.6 2.5 3.1 .5
Tubs 7.1 . . 3.8
Hop 4.5 3.2 1.9 2.6
Noisy 3.8 1.3 1.8
1.5
Winner 5.7 . . .
;PROC PRINT DATA = toads;
TITLE 'SAS Data Set Toads';
RUN;
```

SAS Data Set Toads

Obs	ToadName	Weight	Jump1	Jump2	Jump3
1	Lucky	2.3	1.9	.	3.0
2	Spot	4.6	2.5	3.1	0.5
3	Tubs	7.1	.	.	3.8
4	Hop	4.5	3.2	1.9	2.6
5	Noisy	3.8	1.3	1.8	1.5
6	Winner	5.7	.	.	.

```
data _null_;
    set toads;
        file 'C:\Users\Stephen Hanna\Documents\Classes\AMS
394\SASdata\ToadJump.dat' ;
put ToadName $ Weight Jump1 Jump2 Jump3;
run;

DATA toads;
INFILE ''C:\Users\Stephen Hanna\Documents\Classes\AMS
394\SASdata\ToadJump.dat';
INPUT ToadName $ Weight Jump1 Jump2 Jump3;
PROC PRINT DATA = toads;
TITLE 'SAS Data Set Toads';
RUN;
```

Problem 2:

(1)

```
data sales;
      input VisitingTeam $ 1-20
              ConcessionSales 21-24
```

```
                BleacherSales 25-28
                OurHits 29-31
                TheirHits 32-34
                OurRuns 35-37
                TheirRuns 38-40;
                datalines;
Columbia Peaches      35  67 1  10  2  1
Plains Peanuts       210     2   5  0  2
Gilroy Garlics        151035 12 11  7  6
Sacramento Tomatoes  124  85 15  4  9  1
;
PROC PRINT DATA = sales;
TITLE 'SAS Data Set
Sales'; RUN;
```

SAS Data SetSales

Obs	VisitingTeam	ConcessionSales	BleacherSales	OurHits	TheirHits	OurRuns	TheirRuns
1	Columbia Peaches	35	67	1	10	2	1
2	Plains Peanuts	210	.	2	5	0	2
3	Gilroy Garlics	15	1035	12	11	7	6
4	Sacramento Tomatoes	124	85	15	4	9	1

```
data _null_;
    set sales;
        file 'C:\Users\Stephen Hanna\Documents\Classes\AMS
394\SASdata\Onions.dat' ;
put VisitingTeam $ 1-20
                ConcessionSales 21-24
                BleacherSales 25-28
                OurHits 29-31
                TheirHits 32-34
                OurRuns 35-37
                TheirRuns 38-40;
run;

DATA sales;
INFILE 'C:\Users\Stephen Hanna\Documents\Classes\AMS 394\SASdata\Onions.dat';
INPUT VisitingTeam $ 1-20 ConcessionSales 21-24 BleacherSales 25-28
OurHits 29-31 TheirHits 32-34 OurRuns 35-37 TheirRuns 38-40;
 PROC PRINT DATA = sales; TITLE 'SAS Data Set Sales'; RUN;
```

SAS Data SetSales

Obs	VisitingTeam	ConcessionSales	BleacherSales	OurHits	TheirHits	OurRuns	TheirRuns
1	Columbia Peaches	35	67	1	10	2	1
2	Plains Peanuts	210	.	2	5	0	2
3	Gilroy Garlics	15	1035	12	11	7	6
4	Sacramento Tomatoes	124	85	15	4	9	1

(2)

```
data sales;
      input VisitingTeam $ 1-20
              ConcessionSales 20-24
              BleacherSales 25-28
              OurHits 29-31
              TheirHits 32-34
              OurRuns 35-37
              TheirRuns 38-40;
              datalines;
Columbia Peaches     35  67 1  10  2  1
Plains Peanuts      210     2   5  0  2
Gilroy Garlics       151035 12 11  7  6
Sacramento Tomatoes 124  85 15  4  9  1
;
PROC PRINT DATA = sales;
TITLE 'SAS Data Set Sales';
RUN;
```

SAS Data SetSales

Obs	VisitingTeam	ConcessionSales	BleacherSales	OurHits	TheirHits	OurRuns	TheirRuns
1	Columbia Peaches	35	67	1	10	2	1
2	Plains Peanuts	210	.	2	5	0	2
3	Gilroy Garlics	151	35	12	11	7	6
4	Sacramento Tomatoes	124	85	15	4	9	1

Problem 3:

```
DATA contest;
INPUT Name $16. Age 3. +1 Type $1. +1 Date MMDDYY10.
(Score1 Score2 Score3 Score4 Score5) (4.1);
DATALINES;
Alicia Grossman   13 c 10-28-2003 7.8 6.5 7.2 8.0 7.9
Matthew Lee        9 D 10-30-2003 6.5 5.9 6.8 6.0 8.1
Elizabeth Garcia  10 C 10-29-2003 8.9 7.9 8.5 9.0 8.8
Lori Newcombe      6 D 10-30-2003 6.7 5.6 4.9 5.2 6.1
Jose Martinez      7 d 10-31-2003 8.9 9.510.0 9.7 9.0
Brian Williams    11 C 10-29-2003 7.8 8.4 8.5 7.9 8.0
;
PROC PRINT DATA = contest;
TITLE 'Pumpkin Carving Contest';
RUN;
DATA contest;
INPUT Name $16. Age 3. +1 Type $1. +1 Date MMDDYY10.
(Score1 Score2 Score3 Score4 Score5) (4.1);
 FORMAT Date MMDDYY10.;
 DATALINES;
```

'Pumpkin Carving Contest'

Obs	Name	Age	Type	Date	Score1	Score2	Score3	Score4	Score5
1	Alicia Grossman	1		.	.	.	.	.	.
2	Matthew Lee	.		.	.	.	.	.	.
3	Elizabeth Garcia	1		.	.	.	.	.	.
4	Lori Newcombe	.		.	.	.	.	.	.
5	Jose Martinez	.		.	.	.	510	.	.
6	Brian Williams	1		.	.	.	.	.	.

Problem 4:

(1)

i)

```
DATA nationalparks;
INPUT ParkName $ 1-22 State $ Year @40 Acreage COMMA9.;
DATALINES;
Yellowstone            ID/MT/WY 1872     4,065,493
Everglades             FL 1934           1,398,800
Yosemite               CA 1864             760,917
Great Smoky Mountains NC/TN 1926           520,269
Wolf Trap Farm         VA 1966                 130
;
PROC PRINT DATA = nationalparks;
TITLE 'Selected National Parks';
RUN;
```

'Selected National Parks'

Obs	ParkName	State	Year	Acreage
1	Yellowstone	ID/MT/WY	1872	406549
2	Everglades	FL	1934	139880
3	Yosemite	CA	1864	76091
4	Great Smoky Mountains	NC/TN	1926	52026
5	Wolf Trap Farm	VA	1966	13

ii)

```
DATA nationalparks;
INPUT ParkName $ 1-22 State $ Year @39 +1 @40 Acreage COMMA9.;
DATALINES;
Yellowstone            ID/MT/WY 1872     4,065,493
Everglades             FL 1934           1,398,800
Yosemite               CA 1864             760,917
```

```
Great Smoky Mountains NC/TN 1926          520,269
Wolf Trap Farm        VA 1966                130
;
PROC PRINT DATA = nationalparks;
TITLE 'Selected National Parks';
RUN;
```

'Selected National Parks'

Obs	ParkName	State	Year	Acreage
1	Yellowstone	ID/MT/WY	1872	4065493
2	Everglades	FL	1934	1398800
3	Yosemite	CA	1864	760917
4	Great Smoky Mountains	NC/TN	1926	520269
5	Wolf Trap Farm	VA	1966	130

```
DATA nationalparks;
INPUT ParkName $ 1-22 State $ Year @40 Acreage COMMA9.;
DATALINES;
Yellowstone           ID/MT/WY 1872   4,065,493
Everglades            FL 1934         1,398,800
Yosemite              CA 1864           760,917
Great Smoky Mountains NC/TN 1926        520,269
Wolf Trap Farm        VA 1966               130
;
PROC PRINT DATA = nationalparks;
TITLE 'Selected National Parks';
RUN;
```

'Selected National Parks'

Obs	ParkName	State	Year	Acreage
1	Yellowstone	ID/MT/WY	1872	65493
2	Everglades	FL	1934	398800
3	Yosemite	CA	1864	760917
4	Great Smoky Mountains	NC/TN	1926	520269
5	Wolf Trap Farm	VA	1966	130

(2)

```
DATA nationalparks;
*INPUT ParkName $ 1-22 State $ Year @40 Acreage COMMA9.;
INPUT ParkName $ 1-22 State $ Year Acreage COMMA9.;
DATALINES;
Yellowstone           ID/MT/WY 1872   4,065,493
Everglades            FL 1934         1,398,800
Yosemite              CA 1864           760,917
Great Smoky Mountains NC/TN 1926        520,269
Wolf Trap Farm        VA 1966               130
```

```
;
PROC PRINT DATA = nationalparks;
TITLE 'Selected National Parks';
RUN;
```

'Selected National Parks'

Obs	ParkName	State	Year	Acreage
1	Yellowstone	ID/MT/WY	1872	4065
2	Everglades	FL	1934	.
3	Yosemite	CA	1864	.
4	Great Smoky Mountains	NC/TN	1926	5
5	Wolf Trap Farm	VA	1966	.

The acreage will only read 9 characters to the right of the end of year in each row

Problem 5:

```
DATA books;
Input Name $ v1 v2 v3 v4 v5;
DATALINES;
Grace  3 1  5 2 6
Martin 1 2  4 1 3
Scott  9 10 4 8 6
;
PROC PRINT DATA = books;
TITLE 'Books';
RUN;
data _null_;
    set books;
        file 'C:\Users\Stephen Hanna\Documents\Classes\AMS
394\SASdata\Books.text' ;
put Name $ v1 v2 v3 v4 v5;
run;
```

'Books'

Obs	Name	v1	v2	v3	v4	v5
1	Grace	3	1	5	2	6
2	Martin	1	2	4	1	3
3	Scott	9	10	4	8	6