

Q1 “What type of data files are not considered raw data?”

D: SQL Tables




Q3 “Which of the following is a valid libref name that can be used to create a permanent SAS data set?”

A: working



Q4 “Which DATA statement will create a permanent SAS data set called DOGS assuming that all SAS libraries have been properly defined?”

C. DATA sasdata.dogs



Q11 “Which statement is synonymous with a DATALINES statement?”

C. CARDS



Q12 “Which SAS statement enables you to refer to an external raw data file?”

C. INFILE



Q14 “Assuming that the raw data are arranged in neat columns, what is an advantage of column input?”

D. All of the above

(missing data indicated by spaces, embedded blanks, character data longer than 8 characters)

Q16 “Given this note in the SAS log, what could you add to fix the INPUT statement so that the ID variable would be read correctly including all digits and hyphens?”

```
INPUT ID GPA Age;
NOTE: Invalid data for ID in line 1 1-
9.
RULE:      ----+----1----+----2
1          5437-2212 3.84 21
ID=. GPA=3.84 Age=21 _ERROR_=1 _N_=1
```

C. An informat

Q18 “Which informat would be appropriate to read the value 07/04/1776?”

-5

A. MMDDYY8

Answer should be B because Year has 4 digits.

Q30 “Explain the difference between using a LIBNAME statement versus using an INFILE statement.” -3

LIBNAME creates permanent datasets and allow us to import multiple datasets from a directory instead of loading them one by one by typing their filename, which is rather unnecessary. The libname is a global statement that remains valid for the current SAS session.

INFILE can only be used for one file at a time to specify the location of the file you want to read.

You use a LIBNAME statement to reference a SAS data set, and an INFILE statement to reference an external raw data file.

Q34“ Describe one advantage of using formatted input over column input.”

Column input can be used when the data values are arranged in neatly defined columns and the columns do not contain embedded spaces. However, formatted input allows us to read data with special characters

With formatted input you can read nonstandard numeric data such as dates or dollar amounts with commas and dollar signs

Q45

45. The file CancerRates.dat contains data on the top 10 cancer sites in the United States from the Centers for Disease Control and Prevention (CDC) website. These statistics are condensed across genders and races. The variables are ranking, cancer site, and incidence rate per 100,000 people.

- Open the raw data file CancerRates.dat in a simple editor such as WordPad. In a comment in your program, state the number of variables and observations.
- Read the raw data file into SAS. View the log to verify that your data set has the same number of variables and observations as you stated in part a).
- Print the data set.
- Copy the CancerRates.dat data set to a different location such as your desktop or a flash drive and read it into SAS a second

time from that new location.

A.

Number of variables: 2 (excluding ID/row number);

Number of observations: 10

ID should be one of variables. -3

B.

```
DATA cancer_rates;  
    INFILE "/home/u62223361/Intro to SAS/HW2/CancerRates.dat";  
    INPUT Type Size;  
RUN;
```

```
8 DATA cancer_rates;  
9     INFILE "/home/u62223361/Intro to SAS/HW2/CancerRates.dat";  
10    INPUT Type Size;  
11    RUN;
```

The screenshot shows the SAS IDE interface with three tabs: HOMEWORK 1.sas, *HW2.sas, and Ch2_codes2.sas. The LOG window is active, displaying the following messages:

- NOTE: Invalid data for Something in line 5 5-10.
- NOTE: Invalid data for Something in line 6 5-12.
- NOTE: Invalid data for Something in line 7 5-11.
- NOTE: Invalid data for Something in line 8 5-7.
- NOTE: Invalid data for Something in line 9 5-10.
- NOTE: Invalid data for Something in line 10 5-11.
- NOTE: 10 records were read from the infile "/home/u62223361/Intro to SAS/HW2/CancerRates.dat".
- NOTE: The data set WORK.CANCER_RATES has 10 observations and 2 variables.
- NOTE: DATA statement used (Total process time):

Id is one of variable; use the proper variable names such the second variable as cancer type/site; the second variable should be character variable. -5

C.

```
/* C*/  
PROC PRINT DATA = cancer_rates;  
    title 'Output dataset: hw2_dat.cancer_rates';  
RUN;
```

```
13 /* C*/  
14 PROC PRINT DATA = cancer_rates;  
15     title 'Output dataset: hw2_dat.cancer_rates';  
16     RUN;
```

failed to read the data in. -3

HOMEWORK 1.sas x HW2.sas x Ch2_codes2.sas x

CODE LOG RESULTS

Table of Contents

Output dataset: hw2_dat.cancer_rates

Obs	Type	Size
1	1	.
2	2	.
3	3	.
4	4	.
5	5	.
6	6	.
7	7	.
8	8	.
9	9	.
10	10	.

D.

/* D*/

DATA cancer_rates2;

INFILE "/home/u62223361/Intro to SAS/temp/CancerRates.dat";

INPUT Type Size;

RUN;

PROC PRINT DATA = cancer_rates;

-2

title 'Output dataset: hw2_dat.cancer_rates2';

RUN;

18 /* D*/

19 DATA cancer_rates2;

20 INFILE "/home/u62223361/Intro to SAS/temp/CancerRates.dat";

21 INPUT Type Size;

22 RUN;

23 PROC PRINT DATA = cancer_rates;

24 title 'Output dataset: hw2_dat.cancer_rates2';

25 RUN;

-3

HOMEWORK 1.sas x HW2.sas x Ch2_codes2.sas x

CODE LOG RESULTS OUTPUT DATA

Table of Contents

Output dataset: hw2_dat.cancer_rates2

Obs	Type	Size
1	1	.
2	2	.
3	3	.
4	4	.
5	5	.
6	6	.
7	7	.
8	8	.
9	9	.
10	10	.

Q54

54. Data on previous winners of the Oscars are stored in a Microsoft Excel file named `Oscars.xlsx`. The variables in this file are `ID`, `year`, `host`, `best picture`, `best actor`, `best actress`, `best director`, and `best screenplay`.

- Examine the Microsoft Excel file `Oscars.xlsx` and read it into a permanent SAS data set using the `IMPORT` procedure.
- Print a report that describes the contents of the data set including the attributes of the variables and data set.
- In a comment in your program, discuss any limitations of the functionality of the resulting data set.
- Print the `Oscars.xlsx` data file using the `XLSX LIBNAME` engine. In a comment in your program, discuss any limitations of using this method to read in the data.

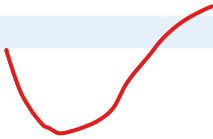
A.

```

31  /* A*/
32
33  %web_drop_table(WORK.OSCAR);
34
35
36  FILENAME REFFILE '/home/u62223361/Intro to SAS/HW2/Oscars.xlsx';
37
38  PROC IMPORT DATAFILE=REFFILE
39      DBMS=XLSX
40      OUT=WORK.OSCAR;
41      GETNAMES= NO;
42      INPUT
43          ID 2
44          YEAR 4.
45          HOST $
46          BEST_PIC $
47          BEST_ACTOR $
48          BEST_ACTRESS $
49          BEST_DIRECTOR $
50          BEST_SCREENPLAY $;
51  RUN;
52
53  data OSCAR; set WORK.OSCAR;
54  rename
55  A = ID
56  B = YEAR
57  C= HOST
58  D = BEST_PIC
59  E = BEST_ACTOR
60  F = BEST_ACTRESS
61  G = BEST_DIRECTOR
62  H = BEST_SCREENPLAY;
63
64  RUN;
65
/* A*/

```

PROC Import dose not take "Input" statement



```
%web_drop_table(WORK.OSCAR);
```

```
FILENAME REFFILE '/home/u62223361/Intro to SAS/HW2/Oscars.xlsx';
```

```

PROC IMPORT DATAFILE=REFFILE
    DBMS=XLSX
    OUT=WORK.OSCAR;
    GETNAMES= NO;
    INPUT
        ID 2

```

```
YEAR 4.  
HOST $  
BEST_PIC $  
BEST_ACTOR $  
BEST_ACTRESS $  
BEST_DIRECTOR $  
BEST_SCREENPLAY $;  
  
RUN;
```

```
data OSCAR; set WORK.OSCAR;  
rename  
A = ID  
B = YEAR  
C = HOST  
D = BEST_PIC  
E = BEST_ACTOR  
F = BEST_ACTRESS  
G = BEST_DIRECTOR  
H = BEST_SCREENPLAY;
```

```
RUN;
```

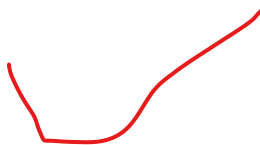
```
PROC PRINT DATA = OSCAR;  
title 'Output dataset: hw2_dat.OSCAR';  
RUN;
```

```
FILENAME  
REFFILE '/home/u63514490/SASIntro/Data/ch2/Oscars.xlsx';
```

```
PROC IMPORT DATAFILE=REFFILE  
DBMS=XLSX  
OUT=Oscars;  
GETNAMES=no;
```

```
RUN;
```

Try use the above to read the data in;



HW2.sas
CODE
LOG
RESULTS
OUTPUT DATA

Table of Contents

Output dataset: hw2_dat.OSCAR

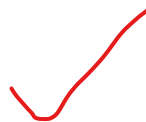
Obs	ID	YEAR	HOST	BEST_PIC	BEST_ACTOR	BEST_ACTRESS	BEST_DIRECTOR	BEST_SCREENPLAY
1	91	2019	No official host	Green Book	Rami Malek (Bohemian Rhapsody)	Olivia Colman (The Favourite)	Alfonso Cuarón (Roma)	Green Book
2	90	2018	Jimmy Kimmel	The Shape of Water	Gary Oldman (Darkest Hour)	Frances McDormand (Three Billboards Outside Ebbing, Missouri)	Guillermo del Toro (The Shape of Water)	Get Out
3	89	2017	Jimmy Kimmel	Moonlight	Casey Affleck (Manchester by the Sea)	Emma Stone (La La Land)	Damien Chazelle (La La Land)	Manchester by the Sea
4	88	2016	Chris Rock	Spotlight	Leonardo DiCaprio (The Revenant)	Brie Larson (Room)	Alejandro G. Iñárritu (The Revenant)	Spotlight
5	87	2015	Neil Patrick Harris	Birdman or (The Unexpected Virtue of Ignorance)	Eddie Redmayne (The Theory of Everything)	Julianne Moore (Still Alice)	Alejandro G. Iñárritu (Birdman or (The Unexpected Virtue of Ignorance))	Birdman or (The Unexpected Virtue of Ignorance)
6	86	2014	Ellen DeGeneres	12 Years a Slave	Matthew McConaughey (Dallas Buyers Club)	Cate Blanchett (Blue Jasmine)	Alfonso Cuarón (Gravity)	Her
7	85	2013	Seth MacFarlane	Argo	Daniel Day-Lewis (Lincoln)	Jennifer Lawrence (Silver Linings Playbook)	Ang Lee (Life of Pi)	Django Unchained
8	84	2012	Billy Crystal	The Artist	Jean Dujardin (The Artist)	Meryl Streep (The Iron Lady)	Michel Hazanavicius (The Artist)	Midnight in Paris
9	83	2011	James Franco, Anne Hathaway	The King's Speech	Colin Firth (for The King's Speech)	Natalie Portman (for Black Swan)	Tom Hooper (for The King's Speech)	The King's Speech
10	82	2010	Steve Martin, Alec Baldwin	The Hurt Locker	Jeff Bridges (for Crazy Heart)	Sandra Bullock (for The Blind Side)	Kathryn Bigelow (for The Hurt Locker)	The Hurt Locker
11	81	2009	Hugh Jackman	Slumdog Millionaire	Sean Penn (for Milk)	Kate Winslet (for The Reader)	Danny Boyle (for Slumdog Millionaire)	Milk
12	80	2008	Jon Stewart	No Country for Old Men	Daniel Day-Lewis (for There Will Be Blood)	Marion Cotillard (for La Vie en Rose (La môme))	Joel Coen and Ethan Coen (for No Country for Old Men)	Juno
13	79	2007	Ellen DeGeneres	The Departed	Forest Whitaker (for The Last King of Scotland)	Helen Mirren (for The Queen)	Martin Scorsese (for The Departed)	Little Miss Sunshine
14	78	2006	Jon Stewart	Crash	Phillip Seymour Hoffman (for Capote)	Reese Witherspoon (for Walk the Line)	Ang Lee (for Brokeback Mountain)	Crash
15	77	2005	Chris Rock	Million Dollar Baby	Jamie Foxx (for Ray)	Hilary Swank (for Million Dollar Baby)	Clint Eastwood (for Million Dollar Baby)	Eternal Sunshine of the Spotless Mind
16	76	2004	Billy Crystal	The Lord of the Rings: The Return of the King	Sean Penn (for Mystic River)	Charlize Theron (for Monster)	Peter Jackson (for The Lord of the Rings: The Return of the King)	Lost in Translation
17	75	2003	Steve Martin	Chicago	Adrien Brody (for The Pianist)	Nicole Kidman (for The Hours)	Roman Polanski (for The Pianist)	Talk to Her
18	74	2002	Whoopi Goldberg	A Beautiful Mind	Denzel Washington (for Training Day)	Halle Berry (for Monster's Ball)	Ron Howard (for A Beautiful Mind)	Gosford Park
19	73	2001	Steve Martin	Gladiator	Russell Crowe (for Gladiator)	Julia Roberts (for Erin Brockovich)	Steven Soderbergh (for Traffic)	Almost Famous
20	72	2000	Billy Crystal	American Beauty	Kevin Spacey (for American Beauty)	Hilary Swank (for Boys Don't Cry)	Sam Mendes (for American Beauty)	American Beauty
21	71	1999	Whoopi Goldberg	Shakespeare in Love	Roberto Benigni (for Life Is Beautiful)	Gwyneth Paltrow (for Shakespeare in Love)	Steven Spielberg (for Saving Private Ryan)	Shakespeare in Love
22	70	1998	Billy Crystal	Titanic	Jack Nicholson (for As Good as It Gets)	Helen Hunt (for As Good as It Gets)	James Cameron (for Titanic)	Good Will Hunting
23	69	1997	Billy Crystal	The English Patient	Geoffrey Rush (for Shine)	Frances McDormand (for Fargo)	Anthony Minghella (for The English Patient)	Fargo
24	68	1996	Whoopi Goldberg	Braveheart	Nicolas Cage (for Leaving Las Vegas)	Susan Sarandon (for Dead Man Walking)	Mel Gibson (for Braveheart)	The Usual Suspects
25	67	1995	David Letterman	Forrest Gump	Tom Hanks (for Forrest Gump)	Jessica Lange (for Blue Sky)	Robert Zemeckis (for Forrest Gump)	Pulp Fiction
26	66	1994	Whoopi Goldberg	Schindler's List	Tom Hanks (for Philadelphia)	Holly Hunter (for The Piano)	Steven Spielberg (for Schindler's List)	The Piano
27	65	1993	Billy Crystal	Unforgiven	Al Pacino (for Scent of a Woman)	Emma Thompson (for Howards End)	Clint Eastwood (for Unforgiven)	The Crying Game
28	64	1992	Billy Crystal	The Silence of the Lambs	Anthony Hopkins (for The Silence of the Lambs)	Jodie Foster (for The Silence of the Lambs)	Jonathan Demme (for The Silence of the Lambs)	Thelma & Louise
29	63	1991	Billy Crystal	Dances with Wolves	Jeremy Irons (for Reversal of Fortune)	Kathy Bates (for Misery)	Kevin Costner (Dances with Wolves)	Ghost

Messages: 2
User: u6222336

B.

```
70 PROC CONTENTS DATA=WORK.OSCAR; RUN;
71
```

PROC CONTENTS DATA=WORK.OSCAR; RUN;



HW2.sas x

CODE LOG RESULTS

Table of Contents

The CONTENTS Procedure

Data Set Name	WORK.OSCAR	Observations	91
Member Type	DATA	Variables	8
Engine	V9	Indexes	0
Created	02/02/2024 22:59:12	Observation Length	432
Last Modified	02/02/2024 22:59:12	Deleted Observations	0
Protection		Compressed	NO
Data Set Type		Sorted	NO
Label			
Data Representation	SOLARIS_X86_64, LINUX_X86_64, ALPHA_TRU64, LINUX_IA64		
Encoding	utf-8 Unicode (UTF-8)		

Engine/Host Dependent Information

Data Set Page Size	131072
Number of Data Set Pages	1
First Data Page	1
Max Obs per Page	303
Obs in First Data Page	91
Number of Data Set Repairs	0
Filename	/saswork/SAS_work7EC400016BD3_odsaws02-usw2-2.oda.sas.com/SAS_workE68D00016BD3_odsaws02-usw2-2.oda.sas.com/oscar.sas7bdat
Release Created	9.0401M7
Host Created	Linux
Inode Number	201330023
Access Permission	rw-r--r--
Owner Name	u62223361
File Size	256KB
File Size (bytes)	262144

Alphabetic List of Variables and Attributes

#	Variable	Type	Len	Format	Informat	Label
5	BEST_ACTOR	Char	77	\$77.	\$77.	E
6	BEST_ACTRESS	Char	95	\$95.	\$95.	F
7	BEST_DIRECTOR	Char	73	\$73.	\$73.	G
4	BEST_PIC	Char	47	\$47.	\$47.	D
8	BEST_SCREENPLAY	Char	47	\$47.	\$47.	H
3	HOST	Char	77	\$77.	\$77.	C
1	ID	Num	8	BEST.		A
2	YEAR	Num	8	BEST.		B

C.

/* C: The limitations include the missing talk show host represented as a string instead of a missing value.

The actresses and actors that won are associated with a picture, but best_actress should just be the

actresses' name to avoid confusion. Also, I had to rename the data separately.

The Import statement, unlike the engine, also cannot allow multiple users to use the same Excel file.

Using libname to read data allows locking of the Excel file. */

```

73 /* C: The limitations include the missing talk show host represented as a string instead of a missing value.
74 The actresses and actors that won are associated with a picture, but best_actress should just be the
75 actresses' name to avoid confusion. Also, I had to rename the data separately.
76 The Import statement, unlike the engine, also cannot allow multiple users to use the same Excel file.
77 Using libname to read data allows locking of the Excel file. */
78

```

D.

/* D */

there are additional comments for C) Because there are no variable names in the Microsoft Excel file, the resulting variables in the SAS data set have non-descriptive names that do not reflect the data;

LIBNAME Oscars XLSX '/home/u62223361/Intro to SAS/HW2/Oscars.xlsx';

PROC PRINT DATA = Oscars.Awards;

TITLE 'PROC PRINT OF OSCAR DATA';

RUN;

/* Limitations of using this method: does not offer many options
because it is reading it as a SAS dataset (according to the textbook).

*/

```
81 LIBNAME Oscars XLSX '/home/u62223361/Intro to SAS/HW2/Oscars.xlsx';
82 PROC PRINT DATA = Oscars.Awards;
83     TITLE 'PROC PRINT OF OSCAR DATA';
84 RUN;
85 /* Limitations of using this method: does not offer many options
86 because it is reading it as a SAS dataset (according to the textbook).
87 */
```

this code attempts to read excel data using XLSX
LIBNAME engine (see page 26 section 2.5)

HW2.sas x

CODE

LOG

RESULTS









       

Table of Contents

PROC PRINT OF OSCAR DATA

Obs	91	2019	No official host	Green Book	Rami Malek (Bohemian Rhapsody)	Olivia Colman (The Favourite)	Alfonso Cuarón (Roma)	Green Book_1
1	90	2018	Jimmy Kimmel	The Shape of Water	Gary Oldman (Darkest Hour)	Frances McDormand (Three Billboards Outside Ebbing, Missouri)	Guillermo del Toro (The Shape of Water)	Get Out
2	89	2017	Jimmy Kimmel	Moonlight	Casey Affleck (Manchester by the Sea)	Emma Stone (La La Land)	Damien Chazelle (La La Land)	Manchester by the Sea
3	88	2016	Chris Rock	Spotlight	Leonardo DiCaprio (The Revenant)	Brie Larson (Room)	Alejandro G. Iñárritu (The Revenant)	Spotlight
4	87	2015	Neil Patrick Harris	Birdman or (The Unexpected Virtue of Ignorance)	Eddie Redmayne (The Theory of Everything)	Julianne Moore (Still Alice)	Alejandro G. Iñárritu (Birdman or (The Unexpected Virtue of Ignorance)	Birdman or (The Unexpected Virtue of Ignorance)
5	86	2014	Ellen DeGeneres	12 Years a Slave	Matthew McConaughey (Dallas Buyers Club)	Cate Blanchett (Blue Jasmine)	Alfonso Cuarón (Gravity)	Her
6	85	2013	Seth MacFarlane	Argo	Daniel Day-Lewis (Lincoln)	Jennifer Lawrence (Silver Linings Playbook)	Ang Lee (Life of Pi)	Django Unchained
7	84	2012	Billy Crystal	The Artist	Jean Dujardin (The Artist)	Meryl Streep (The Iron Lady)	Michel Hazanavicius (The Artist)	Midnight in Paris
8	83	2011	James Franco, Anne Hathaway	The King's Speech	Colin Firth (for The King's Speech)	Natalie Portman (for Black Swan)	Tom Hooper (for The King's Speech)	The King's Speech
9	82	2010	Steve Martin, Alec Baldwin	The Hurt Locker	Jeff Bridges (for Crazy Heart)	Sandra Bullock (for The Blind Side)	Kathryn Bigelow (for The Hurt Locker)	The Hurt Locker
10	81	2009	Hugh Jackman	Slumdog Millionaire	Sean Penn (for Milk)	Kate Winslet (for The Reader)	Danny Boyle (for Slumdog Millionaire)	Milk
11	80	2008	Jon Stewart	No Country for Old Men	Daniel Day-Lewis (for There Will Be Blood)	Marion Cotillard (for La Vie en Rose (La môme))	Joel Coen and Ethan Coen (for No Country for Old Men)	Juno
12	79	2007	Ellen DeGeneres	The Departed	Forest Whitaker (for The Last King of Scotland)	Helen Mirren (for The Queen)	Martin Scorsese (for The Departed)	Little Miss Sunshine
13	78	2006	Jon Stewart	Crash	Phillip Seymour Hoffman (for Capote)	Reese Witherspoon (for Walk the Line)	Ang Lee (for Brokeback Mountain)	Crash
14	77	2005	Chris Rock	Million Dollar Baby	Jamie Foxx (for Ray)	Hilary Swank (for Million Dollar Baby)	Clint Eastwood (for Million Dollar Baby)	Eternal Sunshine of the Spotless Mind
15	76	2004	Billy Crystal	The Lord of the Rings: The Return of the King	Sean Penn (for Mystic River)	Charlize Theron (for Monster)	Peter Jackson (for The Lord of the Rings: The Return of the King)	Lost in Translation
16	75	2003	Steve Martin	Chicago	Adrien Brody (for The Pianist)	Nicole Kidman (for The Hours)	Roman Polanski (for The Pianist)	Talk to Her
17	74	2002	Whoopi Goldberg	A Beautiful Mind	Denzel Washington (for Training Day)	Halle Berry (for Monster's Ball)	Ron Howard (for A Beautiful Mind)	Gosford Park
18	73	2001	Steve Martin	Gladiator	Russell Crowe (for Gladiator)	Julia Roberts (for Erin Brockovich)	Steven Soderbergh (for Traffic)	Almost Famous
19	72	2000	Billy Crystal	American Beauty	Kevin Spacey (for American Beauty)	Hilary Swank (for Boys Don't Cry)	Sam Mendes (for American Beauty)	American Beauty
20	71	1999	Whoopi Goldberg	Shakespeare in Love	Roberto Benigni (for Life Is Beautiful)	Gwyneth Paltrow (for Shakespeare in Love)	Steven Spielberg (for Saving Private Ryan)	Shakespeare in Love
21	70	1998	Billy Crystal	Titanic	Jack Nicholson (for As Good as It Gets)	Helen Hunt (for As Good as It Gets)	James Cameron (for Titanic)	Good Will Hunting
22	69	1997	Billy Crystal	The English Patient	Geoffrey Rush (for Shine)	Frances McDormand (for Fargo)	Anthony Minghella (for The English Patient)	Fargo
23	68	1996	Whoopi Goldberg	Braveheart	Nicolas Cage (for Leaving Las Vegas)	Susan Sarandon (for Dead Man Walking)	Mel Gibson (for Braveheart)	The Usual Suspects
24	67	1995	David Letterman	Forrest Gump	Tom Hanks (for Forrest Gump)	Jessica Lange (for Blue Sky)	Robert Zemeckis (for Forrest Gump)	Pulp Fiction
25	66	1994	Whoopi Goldberg	Schindler's List	Tom Hanks (for Philadelphia)	Holly Hunter (for The Piano)	Steven Spielberg (for Schindler's List)	The Piano
26	65	1993	Billy Crystal	Unforgiven	Al Pacino (for Scent of a Woman)	Emma Thompson (for Howards End)	Clint Eastwood (for Unforgiven)	The Crying Game
27	64	1992	Billy Crystal	The Silence of the Lambs	Anthony Hopkins (for The Silence of the Lambs)	Jodie Foster (for The Silence of the Lambs)	Jonathan Demme (for The Silence of the Lambs)	Thelma & Louise
28	63	1991	Billy Crystal	Dances with Wolves	Jeremy Irons (for Reversal of Fortune)	Kathy Bates (for Misery)	Kevin Costner (Dances with Wolves)	Ghost
29	62	1990	Billy Crystal	Driving Miss Daisy	Daniel Day-Lewis (for My Left Foot: The Story of Christy Brown)	Jessica Tandy (for Driving Miss Daisy)	Jeff Margolis (for Born on the Fourth of July)	Dead Poets Society

Here are the points for the HW

#4 HW Q1(5),3 (5), 4 (5), 11(5), 12(5), 14(5), 16(5), 18(5), 30(10), 34 (10), Q 45 (20), 54(20) with a total of 100

Notes From Teacher: Please pay attention to the following.

- 1) read the question carefully and use the proper variable
- 2) check the output and make sure that SAS code works as you have intended
- 3) include SAS log as part of HW
- 4) have your name on the first line of page