1.A raw data file is listed below.

The following program is submitted using this file as input:

```
data work.family;
  infile 'file-specification';
  <insert INPUT statement here>
run;
```

Which INPUT statement correctly reads the values for the variable Birthdate as SAS date values?

```
a.input relation $ first_name $ birthdate date9.;
b.input relation $ first_name $ birthdate mmddyy8.;
c.input relation $ first_name $ birthdate : date9.;
d.input relation $ first_name $ birthdate : mmddyy8.;
```

2.A raw data file is listed below.

The following SAS program is submitted using the raw data file above as input:

```
data employeestats;
    <insert INFILE statement here>
    input name $ age weight;
run;
```

The following output is desired:

name age weight Jose 47 210

Sue . 108

Which of the following INFILE statements completes the program and accesses the data correctly?

```
a. infile 'file-specification' pad;
b. infile 'file-specification' dsd;
c. infile 'file-specification' dlm=',';
d. infile 'file-specification' missover;
```

3.The following program is submitted:

```
data numrecords;
    infile cards dlm=',';
    input agent1 $ agent2 $ agent3 $;
cards;
jones,,brownjones,spencer,brown;
run;
```

What is the value for the variable named Agent 2 in the second observation?

- a. brown
- b. spencer
- c. ''(missing character value)
- d. There is no value because only one observation is created.
- **4.**A raw data file is listed below.

The following program is submitted using this file as input:

```
data work.houses;
  infile 'file-specification';
  <insert INPUT statement here>
run;
```

Which one of the following INPUT statements reads the raw data file correctly?

```
input @1 style $8.
      +1 sqfeet 4.
      +1 bedrooms 1.
      @20 baths 3.
         street 16.
      @40 price dollar8;
       input @1 style $8
b.
      +1 sqfeet 4.
      +1 bedrooms 1.
      @20 baths 3.
         street $16
      @40 price dollar8.;
       input @1 style $8.
      +1 sqfeet 4.
      +1 bedrooms 1.
      @20 baths 3.
         street $16.
      @40 price dollar8.;
d.
       input @1 style $8.
      +1 sqfeet 4.
      +1 bedrooms 1.
      @20 baths 3
         street 16.
      @40 price dollar8.;
```

5. The following SAS program is submitted at the start of a new SAS session:

```
libname sasdata 'SAS-data-library';
data sasdata.sales;
    set sasdata.salesdata;
    profit=expenses-revenues;
run;
proc print data=sales;
```

run;

The SAS data set **Sasdata.Salesdata** has ten observations. Which one of the following explains why a report fails to generate?

- a. The DATA step fails execution.
- b. The SAS data set **Sales** does not exist.
- c. The SAS data set **Sales** has no observations.
- d. The PRINT procedure contains a syntax error.
- **6.** Which action assigns a reference named SALES to a permanent SAS data library?
- a. Issuing the command:

```
libref SALES 'SAS-data-library'
b. Issuing the command:
libname SALES 'SAS-data-library'
c. Submitting the statement:
libref SALES 'SAS-data-library';
d. Submitting the statement:
libname SALES 'SAS-data-library';
```

7. The following SAS program is submitted:

```
data newstaff;
    set staff;
    <insert WHERE statement here>
run;
```

Which one of the following WHERE statements completes the program and selects only observations with a Hire date of *February 23*, 2000?

```
a. where hire_date='23feb2000'd;
b. where hire_date='23feb2000';
c. where hire_date='02/23/2000'd;
d. where hire_date='02/23/2000';
```

- **8.** Which one of the following SAS date formats displays the SAS date value for January 16, 2002 in the form of 16/01/2002?
- a. DATE10.
- b. DDMMYY10.
- c. WEEKDATE10.
- d. DDMMYYYY10.
- **9.** Which one of the following displays the contents of an external file from within a SAS session?
- a. the LIST procedure
- b. the PRINT procedure
- c. the FSLIST procedure
- d. the VIEWTABLE window
- 10. The SAS data set Sashelp.Prdsale contains the variables Region and Salary with 4 observations per Region. Sashelp.Prdsale is sorted primarily by Region and within Region by Salary in descending order.

The following program is submitted:

```
data one;
   set sashelp.prdsale;
   retain temp;
```

```
by region descending salary;
  if first.region then
    do;
       temp=salary;
       output;
    end;
  if last.region then
    do;
      range=salary-temp;
      output;
  end;
```

run;

For each region, what is the number of observation(s) written to the output data set?

- a. 0
- b. 1
- *c*. 2
- d. 4

11. The following SAS program is submitted:

```
proc contents data=sasuser.houses;
run;
```

The exhibit below contains partial output produced by the CONTENTS procedure.

Data Set Name	SASUSER.HOUSE 3	Observations	15
Member Type	DATA	Variables	6
Engine	V9	Indexes	0
Created	Tuesday, April 22,		
2003 03:09:25 PM	Observation Length	56	
Last Modified	Tuesday, April 22,		
2003 03:09:25 PM	Deleted Observation	ns	0
Protection		Compressed	NO
Data Set Type		Sorted	NO
Label	Residential housing		
for sale	_		
Data Representation	WINDOWS_32		
Encoding	wlatin1 Western		
(Windows)			

Which of the following describes the **Sasuser.Houses** data set?

- a. The data set is sorted but not indexed.
- b. The data set is both sorted and indexed.
- c. The data set is not sorted but is indexed.
- d. The data set is neither sorted nor indexed.

12.The following SAS program is submitted:

```
proc sort data=work.test;
  by fname descending salary;
run;
```

Which one of the following represents how the observations are sorted?

- a. The data set **Work.Test** is stored in ascending order by both Fname and Salary values.
- b. The data set **Work.Test** is stored in descending order by both Fname and Salary values.
- c. The data set **Work.Test** is stored in descending order by Fname and ascending order by Salary values.
- d. The data set **Work.Test** is stored in ascending order by Fname and in descending order by Salary values.

13.The following SAS program is submitted:

```
title='EDU';
if title='EDU' then
    Division='Education';
else if title='HR' then
    Division='Human Resources';
else Division='Unknown';
run;
```

Which one of the following represents the value of the variable Division in the output data set?

a. Educatio

data names;

- b. Education
- c. Human Re
- d. Human Resources
- **14.**Which one of the following SAS programs creates a variable named City with a value of *Chicago*?

```
data work.airports;
  AirportCode='ord';
  if AirportCode='ORD' City='Chicago';
run;
      data work.airports;
  AirportCode='ORD';
  if AirportCode='ORD' City='Chicago';
      data work.airports;
  AirportCode='ORD';
  if AirportCode='ORD' then City='Chicago';
run;
       data work.airports;
  AirportCode='ORD';
  if AirportCode='ORD';
  then City='Chicago';
run;
```

15.The following SAS program is submitted:

```
data work.building;
  code='DAL523';
  code='SANFRAN604';
  code='HOUS731';
  length code $ 20;
run;
```

Which one of the following is the length of the code variable?

- *a*. 6
- *b*. 7
- *c*. 10
- d. 20
- **16.** Which of the following statements creates a numeric variable named IDnumber with a value of 4198?

```
a. IDnumber=4198;
b. IDnumber='4198';
c. length IDnumber=8;
d. length IDnumber $ 8;
```

17. The following program is submitted:

```
data fltaten;
    input jobcode $ salary name $;
cards;
FLAT1 70000 Bob
FLAT2 60000 Joe
FLAT3 30000 Ann;
;
run;
data desc;
    set fltaten;
    if salary>60000 then description='Over 60';
    else description='Under 60';
run;
```

What is value of the variable named description when the value for salary is 30000?

- a. Under 6
- b. Under 60
- c. Over 60
- d. ''(missing character value)

18. A raw data file is listed below.

The following program is submitted:

```
data all_sales;
  infile 'file-specification';
  input receipts;
  <insert statement(s) here>
run;
```

Which statement(s) complete(s) the program and produce(s) a running total of the

```
a. total+receipts;
b. total 0;
sum total;
c. total=total+receipts;
d. total=sum(total,receipts);
```

Receipts variable?

19.A raw data file is listed below.

The following SAS program is submitted and references the raw data file above:

```
data money;
  infile 'file-specification';
  input year quantity;
  total=total+quantity;
```

```
run;
What is the value of total when the data step finishes executing?
a. 0
b. 1
c. 11
d. . (missing numeric value)
20.The following program is submitted:
data test;
   average=mean(6,4,.,2);
run;
What is the value of average?
b. 3
c. 4
d. . (missing numeric value)
21.The following SAS program is submitted:
data work.AreaCodes;
   Phonenumber=3125551212;
   Code='('!!substr(Phonenumber,1,3)!!')';
run;
Which one of the following is the value of the variable Code in the output data set?
a. (3)
b. (312)
c. 3
d. 312
22.The following SAS program is submitted:
data work.inventory;
   products=7;
   do until (products gt 6);
      products+1;
   end;
run;
Which one of the following is the value of the variable products in the output data set?
a. 5
b. 6
c. 7
d. 8
23.The following program is submitted:
data work.test;
   set work.staff (keep=salary1 salary2 salary3);
   <insert ARRAY statement here>
run;
Which ARRAY statement completes the program and creates new variables?
a. array salary{3};
b. array new_salary{3};
c. array salary{3} salary1-salary3;
d. array new_salary{3} salary1-salary3;
24.Which of the following permanently associates a format with a variable?
```

a. the FORMAT procedure

b. a FORMAT statement in a DATA step

- c. an INPUT function with format modifiers
- d. an INPUT statement with formatted style input

25.The following report is generated:

```
Style
of homes n Asking
Price

CONDO 4 $99,313
RANCH 4 $68,575
SPLIT 3 $77,983
TWOSTORY 4 $83,825
```

Which of the following steps created the report?

```
proc freq data=sasuser.houses;
   tables style price /nocum;
   format price dollar10.;
  label style="Style of homes"
       price="Asking price";
run;
     proc print data=sasuser.houses;
b.
  class style;
  var price;
   table style,n price*mean*f=dollar10.;
   label style="Style of homes"
        price="Asking price";
run;
      proc means data=sasuser.houses n mean;
  class style;
  var price;
   format price dollar10.;
  label style="Style of homes"
        price="Asking price";
run;
d.
      proc report data=sasuser.houses nowd headline;
  column style n price;
  define style / group "Style of homes";
  define price / mean format=dollar8.
                 "Asking price";
run;
```

- **26.**A SAS report currently flows over two pages because it is too long to fit within the specified display dimension. Which one of the following actions would change the display dimension so that the report fits on one page?
- a. Increase the value of the LINENO option.
- b. Decrease the value of the PAGENO option.
- c. Decrease the value of the LINESIZE option.
- d. Increase the value of the PAGESIZE option.
- **27.**Which one of the following SAS REPORT procedure options controls how column headings are displayed over multiple lines?
- a. SPACE=
- b. SPLIT=
- c. LABEL=
- d. BREAK=

28.The following SAS program is submitted:

```
ods html file='newfile.html';
proc print data=sasuser.houses;
run;
proc means data=sasuser.houses;
run;
proc freq data=sasuser.shoes;
run;
ods html close;
proc print data=sasuser.shoes;
run;
How many HTML files are created?
a. 1
b. 2
c. 3
d. 4
```

29.A frequency report of the variable Jobcode in the **Work.Actors** data set is listed below.

Jobcode Frequency Percent Cumulative Cumulative Frequency Percent Actor I 2 33.33 2 33.33 Actor II 2 33.33 4 66.67 Actor III 2 33.33 100.00

Frequency Missing = 1

The following SAS program is submitted:

```
data work.joblevels;
  set work.actors;
  if jobcode in ('Actor I', 'Actor II') then
     joblevel='Beginner';
  if jobcode='Actor III' then
     joblevel='Advanced';
  else joblevel='Unknown';
run;
```

Which of the following represents the possible values for the variable joblevel in the **Work.Joblevels** data set?

- a. Advanced and Unknown only
- b. Beginner and Advanced only
- c. Beginner, Advanced, and Unknown
- d. '' (missing character value)

30.The descriptor and data portions of the **Work.Salaries** data set are shown below.

```
Variable Type Len Pos
name Char 8 0
salary Char 8 16
status Char 8 8
```

name	status	salary
Liz	S	15,600
Herman	S	26,700
Marty	S	35,000

The following SAS program is submitted:

```
proc print data=work.salaries;
   where salary<20000;
run;</pre>
```

What is displayed in the SAS log after the program is executed?

- a. A NOTE indicating that 1 observation is read.
- b. A NOTE indicating that 0 observations were read.
- c. A WARNING indicating that character values have been converted to numeric values.
- d. An ERROR indicating that the WHERE clause operator requires compatible variables.
- **31.**Which of the following statements is true when SAS encounters a syntax error in a DATA step?
- a. The SAS log contains an explanation of the error.
- b. The DATA step continues to execute and the resulting data set is complete.
- c. The DATA step stops executing at the point of the error and the resulting data set contains observations up to that point.
- d. A note appears in the SAS log indicating that the incorrect statement was saved to a SAS data set for further examination.
- **32.**Which TITLE statement would display JANE'S DOG as the text of the title?

```
a. title "JANE"S DOG";
b. title 'JANE"S DOG';
c. title "JANE'S DOG";
d. title 'JANE' ' 'S DOG';
```

33.The following SAS program is submitted:

```
data test;
    input animal1 $ animal2 $
        mlgrams1 mlgrams2;
cards;
hummingbird ostrich 54000.39 90800000.87;
run:
```

Which one of the following represents the values of each variable in the output data set?

```
    animal1 animal2 mlgrams1 mlgrams2
    hummingb ostrich 54000.39 90800000
    animal1 animal2 mlgrams1 mlgrams2
```

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	hummingb	ostrich 54000	.39 9080	0000.87
<i>c</i> .	animal1 animal2	mlgrams1	mlgrams2	
	hummingbird	ostrich	54000.39	90800000
d.	animal1 animal2	mlgrams1	mlgrams2	
	hummingbird	ostrich	54000.39	90800000.87

34. The SAS data sets Work. Employee and Work. Salary are shown below.

Work.Employee

fname age Bruce 30 Dan 40

Work.Salary

fname salary Bruce 25000 Bruce 35000 Dan 25000

The following merged SAS data set is generated:

Work.Empdata

fname age totsal Bruce 30 60000 Dan 40 25000

Which one of the following SAS programs created the merged data set?

```
data work.empdata;
  merge work.employee
        work.salary;
  by fname;
  if first.fname then totsal=0;
  totsal+salary;
  if last.fname then output;
run;
      data work.empdata(drop=salary);
  merge work.employee
         work.salary;
  by fname;
  if first.fname then totsal=0;
  totsal+salary;
  if last.fname then output;
run;
      data work.empdata;
  merge work.employee
         work.salary(drop=salary);
  by fname;
  if first.fname then total=0;
  totsal+salary;
  if last.fname then output;
run;
      data work.empdata;
  merge work.employee
        work.salary;
```

```
by fname;
  if first.fname then total+salary;
run;
```

35.The contents of the SAS data set **Sasdata.Group** are listed below.

```
name ageJanice 10Henri 11Michele 11Susan 12
```

The following SAS program is submitted using the **Sasdata.Group** data set as input:

```
libname sasdata 'SAS-data-library';
data group;
   set sasdata.group;
   file 'file-specification';
   put name $15. @5 age 2.;
```

Which one of the following describes the output created?

- a. a raw data file only
- b. a SAS data set named **Group** only
- c. both a SAS data set named **Group** and a raw data file
- d. The program fails execution due to errors.

36.The SAS data set **Employee_info** is listed below.

employee bonus 2542 100.00 3612 133.15 2198 234.34 2198 111.12

The following SAS program is submitted:

Which one of the following BY statements completes the program and sorts the data in sequential order by descending bonus values within ascending employee values?

```
a. by descending bonus employee;
b. by employee bonus descending;
c. by employee descending bonus;
d. by descending employee bonus;
```

37.The following SAS program is submitted:

```
data work.accounting;
  length jobcode $ 12;
  set work.department;
run;
```

The **Work.Department** SAS data set contains a character variable named jobcode with a length of 5. Which of the following is the length of the variable jobcode in the output data set?

a. 5

b. 8

c. 12

d. The value cannot be determined because the program fails to execute due to syntax errors

38.Assume the SAS data set **Sasuser.Houses** has four numeric variables. The following SAS program is submitted:

The following report is produced:

```
style
           N Obs Variable Mean
CONDO
                  bedrooms
baths
           2.7500000
2.1250000
RANCH
                   bedrooms
           2.2500000
baths
2.0000000
SPLIT
                   bedrooms
baths
           2.6666667
1.8333333
TWOSTORY 4
                   bedrooms
baths
           3.0000000
1.8750000
```

Which of the following statement(s) create(s) this report?

```
a. class style;
b. var bedrooms baths;
c. class style;
var bedrooms baths;
d. var style;
class bedrooms baths;
```

39.An HTML file contains a SAS report. Which ODS statement option is used to specify the name of the HTML file?

```
a. OUT=
```

b. FILE=

c. HTML=

d. HTMLFILE=

40.The following SAS program is submitted:

```
data work.test;
   set sasuser.class;
   array t{3} <insert text here> (5, 10, 15);
run;
```

Which one of the following completes the ARRAY statement and creates data elements that are not included in the SAS data set **Work.Test**?

```
a. DROP
```

b. _TEMP_

c. _TEMPORARY_

d. No extra text is needed.

41.A raw data file is listed below.

```
1---+---10---+---20---+---
01/05/1989 Frank 11
12/25/1987 June 13
01/05/1991 Sally 9
```

The following SAS program is submitted using the raw data file as input:

```
data work.family;
  infile 'file-specification';
  input @1 date_of_birth mmddyy10.
     @15 first_name $5.
     @25 age 3;
run;
proc print data=work.family noobs;
run;
```

Which one of the following is the result?

- a. The program executes, but the age values are missing in the output.
- b. The program executes, but the date values are missing in the output.
- c. The program fails to execute because the age informat is coded incorrectly.
- d. The program fails to execute because the date informat is coded incorrectly.
- **42.**Assume that SAS data sets **Sasdata.Products** and **Sasdata.Sales** both contain the Prod_ID variable. Which of the following SAS DATA steps returns only exceptions or non matches?

```
libname sasdata 'SAS-data-library';
a.
data all;
  merge sasdata.products
         sasdata.sales;
  by prod_id;
  if ins=1 or inp=1;
       libname sasdata 'SAS-data-library';
data all;
  merge sasdata.products(in=inp)
        sasdata.sales(in=ins);
  by prod_id;
  if ins=1 and inp=1;
run;
       libname sasdata 'SAS-data-library';
C.
data all;
  merge sasdata.products(in=inp)
        sasdata.sales(in=ins);
  by prod_id;
  if ins=0 and inp=0;
run;
       libname sasdata 'SAS-data-library';
data all;
  merge sasdata.products(in=inp)
        sasdata.sales(in=ins);
  by prod_id;
  if ins=0 or inp=0;
run;
```

43.The following SAS program is submitted:

Which variables are output to both data sets?

- a. price and originally
- b. city and equipment only
- c. city, price, and equipment only
- d. city, price, orig, and equipment

44. The following SAS program is submitted:

```
proc contents data=sasuser._all_ nods;
run;
```

Which one of the following is produced as output?

- a. the list of all data set names in the **Sasuser** library only
- b. the descriptor portion of the data set named Sasuser._All_
- c. the descriptor portion of every data set in the Sasuser library only
- d. the list of data set named in the **Sasuser** library plus the descriptor portion of every data set in the **Sasuser** library.

45.The following SAS program is submitted:

```
data work.test;
  length city $20;
  city='Paris';
  city2=trim(city);
run;
```

Which one of the following is the length of the city2 variable?

- *a*. 5
- *b*. 6
- c. 8
- d. 20

46. A raw data record is listed below.

```
1---+---20---+---
$23,456 750
```

The following SAS program is submitted:

```
data bonus;
  infile 'file-specification';
  input salary $ 1-7 raise 9-11;
  <insert statement here>
run;
```

Which one of the following statements completes the program and adds the values of salary and raise to calculate the expected values of the newsalary variable?

```
a. newsalary=salary + raise;
b. newsalary=put(salary,comma7.) + raise;
c. newsalary=input(salary,comma7.) + raise;
d. newsalary=put(salary,comma7.) + put(raise,3.);
```

47.The following SAS program is submitted:

```
data work.travel;
  do i=1 to 6 by 2;
    trip + i;
  end;
run;
```

Which one of the following is the value of the variable trip in the output data set?

- a. 2
- b. 3
- c. 9
- d. 10

48. The following SAS program is submitted:

```
proc report data=survey nowd;
  column age choicel;
  <insert DEFINE statement here>
  define choicel/display;
run;
```

Which one of the following DEFINE statements completes the program and displays values of the variable Age in ascending order?

```
a. define age/sort;
b. define age/order;
c. define age/sort by age;
d. define age/order by age;
```

- **49.**Which one of the following statements is true when SAS encounters a data error?
- a. The execution phase is stopped, and a system abend occurs.
- b. A missing value is assigned to the appropriate variable, and execution continues.
- c. The execution phase is stopped, and a SAS data set is created with zero observations.
- d. A missing value is assigned to the appropriate variable, and execution stops at that point.

50.The following SAS program is submitted:

```
data test;
  input country $8. date mmddyy10.;
  cards;
  Germany 12/31/2000
  France 01/32/2001
  ;
run;
```

Which one of the following is the value of the variable _ERROR_ when the variable _N_ has a value of 2?

- *a.* 0
- b. 1
- c. true
- d. false

ANSWER KEYS

1. Correct answer: d

An informat is used to translate the calendar date to a SAS date value. The date values are in the form of two-digit values for month-day-year, so the MMDDYY8. informat must be used. When using an informat with list input, the colon-format modifier is required to correctly associate the informat with the variable name.

You can learn about

- informats in Reading Date and Time Values
- the colon-format modifier in **Reading Free-Format Data**.

2.Correct answer: b

The PAD option specifies that SAS pad variable length records with blanks. The MISSOVER option prevents SAS from reading past the end of the line when reading free formatted data. The DLM= option specifies the comma as the delimiter; however, consecutive delimiters are treated as one by default. The DSD option correctly reads the data with commas as delimiters and two consecutive commas indicating a missing value like those in this raw data file.

You can learn about

- the PAD option in Reading Raw Data in Fixed Fields
- the MISSOVER option in Creating Multiple Observations from a Single Record
- the DLM= option and the DSD option in **Reading Free-Format Data**.

3.Correct answer: d

The CARDS statement enables you to read instream data. Any number of consecutive commas are considered to be a single delimiter as a result of the DLM= option, and the length of each variable defaults to 8 bytes. Therefore, the values *jones*, *brownjon*, and *spencer* are assigned to Agent1, Agent2, and Agent3, respectively, for the first observation. The rest of the data on the record is not read by the INPUT statement and is not output to the data set.

You can learn about

- the CARDS statement in Creating SAS Data Sets from Raw Data
- the default length of variables in **Reading Free-Format Data**.

4.Correct answer: c

Formatted input requires periods as part of the informat name. The period is missing from the variables Style and Street in Answer b, the variable Baths in Answer d, and the variable Price in Answer d (which is also missing a dollar sign to read the variable Street as a character value).

You can learn about formatted input and informats in Reading Raw Data in Fixed

Fields.

5.Correct answer: **b**

The DATA step creates a permanent SAS data set, **Sasdata.Salesdata**. The PRINT procedure is printing a temporary SAS data set, **Sales**, that is stored in the **Work** library. At the beginning of the SAS session, **Work.Sales** does not exist.

You can learn about

- creating permanent data sets with the DATA step in Creating SAS Data Sets from Raw Data
- temporary data sets in **Basic Concepts**.

6.Correct answer: d

The LIBNAME statement assigns a reference known as a libref to a permanent SAS data library. The LIBNAME command opens the LIBNAME window.

You can learn about the LIBNAME statement in Referencing Files and Setting Options.

7.Correct answer: a

A SAS date constant must take the form of one- or two-digit day, three-digit month, and two- or four-digit year, enclosed in quotation marks and followed by a d ('ddmmmyy<yy>'d).

You can learn about SAS date constants in Creating SAS Data Sets from Raw Data.

8.Correct answer: b

The requested output is in day-month-year order and is 10 bytes long, so DDMMYY10. is the correct format. Although WEEKDATE10. is a valid SAS format, it does not display the SAS date value as shown in the question above. DDMMYYYY10. is not a valid SAS date format, and the DATEw. format cannot accept a length of 10.

You can learn about

- the DDMMYY10. format in **Creating List Reports**
- the WEEKDATE10. format in **Reading Date and Time Values**.

9.Correct answer: c

The PRINT procedure and VIEWTABLE window display the values in SAS data sets. The FSLIST procedure displays the values in external files. There is no LIST procedure in SAS.

You can learn about

• the PRINT procedure in Creating List Reports

• the VIEWTABLE window in **Referencing Files and Setting Options**.

10.Correct answer: c

The expression first.region is true once for each region group. The expression last.region is true once for each region group. Therefore, each OUTPUT statement executes once for a total of 2 observations in the output data set.

You can learn about the FIRST. variable expression and the OUTPUT statement in **Reading SAS Data Sets**.

11.Correct answer: d

The exhibit above shows partial output from the CONTENTS procedure, In the top right-hand column of the output, you see that Indexes has a value of θ , which indicates that no indexes exist for this data set. Also, Sorted has a value of NO, which indicates that the data is not sorted.

You can learn about the CONTENTS procedure in **Referencing Files and Setting Options**.

12.Correct answer: d

The DESCENDING keyword is placed before the variable name it modifies in the BY statement, so the correct description is in descending order by Salary value within ascending Fname values.

You can learn about the SORT procedure and the DESCENDING keyword in **Creating List Reports**.

13.Correct answer: b

The length of the variable Division is set to 9 when the DATA step compiles. Since the value of the variable Title is *EDU*, the first IF condition is true; therefore, the value of the variable Division is *Education*.

You can learn about

- the length of a variable in **Understanding DATA Step Processing**
- IF-THEN statements in **Creating and Managing Variables**.

14.Correct answer: c

The correct syntax for an IF-THEN statement is: **IF** *expression* **THEN** *statement*; In this example, the variable City is assigned a value of *Chicago* only if the expression AirportCode='ORD' is true.

You can learn about IF-THEN statements in Creating and Managing Variables.

15.Correct answer: a

The DATA step first goes through a compilation phase, then an execution phase. The length of a variable is set during the compilation phase and is based on the first time the variable is encountered. In this case, the variable code is set to the length of the text string *DAL523* which is 6 characters long. The next assignment statements are ignored during compilation. The LENGTH statement is also ignored since the length has already been established, but a note will be written to the log.

You can learn about

- the compilation phase of the DATA step in Understanding DATA Step Processing
- the LENGTH statement in **Creating and Managing Variables**.

16.Correct answer: a

The first reference to the SAS variable in the DATA step sets the name, type, and length of the variable in the program data vector (PDV) and in the output SAS data set. The assignment statement IDnumber=4198; is the first reference and creates a numeric variable named IDnumber with a default storage length of 8 bytes.

You can learn about

- creating variables in the DATA step in Understanding DATA Step Processing
- numeric variables in **Basic Concepts**.

17.Correct answer: a

The variable description is being created by the IF-THEN/ELSE statement during compilation. The first occurrence of the variable description is on the IF statement, and since it is assigned the value *Over 60*, the length of the variable is 7. Therefore, for the salary value of *30000*, description has the value of *Under 6* (the *0* is truncated.)

You can learn about

- the compilation phase of the DATA step in Understanding DATA Step Processing
- IF-THEN/ELSE statements in **Creating and Managing Variables**.

18.Correct answer: a

The SUM function and the assignment statement do not retain values across iterations of the DATA step. The sum statement total+receipts; initializes total to θ , ignores missing values of receipt, retains the value of total from one iteration to the next, and adds the value of receipts to total.

19.Correct answer: d

The variable <code>Total</code> is assigned a missing value during the compilation phase of the DATA step. When the first record is read in, SAS processes: <code>total=.+2;</code> which results in a missing value. Therefore the variable <code>Total</code> remains missing for all observations.

You can learn about

- the compilation phase of the DATA step in Understanding DATA Step Processing
- using missing values with arithmetic operators in **Creating SAS Data Sets from Raw Data**.

20.Correct answer: c

The MEAN function adds all of the non-missing values and divides by the number of non-missing values. In this case, 6 + 4 + 2 divided by 3 is 4.

You can learn about the MEAN function in Transforming Data with SAS Functions.

21.Correct answer: a

An automatic data conversion is performed whenever a numeric variable is used where SAS expects a character value. The numeric variable is written with the BEST12. format and the resulting character value is right-aligned when the conversion occurs. In this example, the value of Phonenumber is converted to character and right-aligned before the SUBSTR function is performed. Since there are only 10 digits in the value of Phonenumber, the right-aligned value begins with two blanks. Therefore the SUBSTR function picks up two blanks and a 3, and uses the BEST12. format to assign that value to code. Then, the parentheses are concatenated before and after the two blanks and a 3.

You can learn about automatic data conversion and the SUBSTR function in **Transforming Data with SAS Functions**.

22.Correct answer: d

A DO UNTIL loop always executes at least once because the condition is not evaluated until the bottom of the loop. In the SAS program above, the value of Products is incremented from 7 to 8 on the first iteration of the DO UNTIL loop, before the condition is checked. Therefore the value of Products is 8.

You can learn about DO UNTIL loops in **Generating Data with DO Loops**.

23.Correct answer: b

Although each of the ARRAY statements listed above is a valid statement, only Answer B creates new variables named new_salary1, new_salary2 and new_salary3. Answer C and Answer D both create an array that groups the existing data set variables salary1, salary2, and salary3. Since the array in Answer A is named salary, it also uses the existing data set variables.

You can learn about creating new variables in an ARRAY statement in **Processing Variables with Arrays**.

24.Correct answer: b

To permanently associate a format with a variable, you use the FORMAT statement in a

DATA step. You can use the FORMAT procedure to create a user-defined format. You use the INPUT function to convert character data values to numeric values with an informat. You use the INPUT statement to read data into a data set with an informat.

You can learn about

- permanently assigning a format to a variable in Creating and Managing Variables
- the FORMAT statement in **Creating List Reports**
- the FORMAT procedure in Creating and Applying User-Defined Formats
- the INPUT function in **Transforming Data with SAS Functions**
- the INPUT statement in **Reading Raw Data in Fixed Fields**.

25.Correct answer: d

The FREQ procedure cannot create the average asking price. The CLASS statement and the VAR statement are not valid for use with the PRINT procedure. The MEANS procedure output would have both the N statistic and the N Obs statistic since a CLASS statement is used. The REPORT procedure produced the report.

You can learn about

- the FREQ procedure in **Producing Descriptive Statistics**
- the PRINT procedure in Creating List Reports
- the MEANS procedure in **Producing Descriptive Statistics**
- the REPORT procedure in Creating Enhanced List and Summary Reports.

26.Correct answer: d

The PAGESIZE= SAS system option controls the number of lines that compose a page of SAS procedure output. By increasing the number of lines available per page, the report might fit on one page.

You can learn about the PAGESIZE= option in Referencing Files and Setting Options.

27.Correct answer: b

The SPLIT= option specifies how to split column headings. The SPACE=, LABEL= and BREAK= options are not valid options in PROC REPORT.

You can learn about the SPLIT= option for the REPORT procedure in **Creating Enhanced List and Summary Reports**.

28.Correct answer: a

By default, one HTML file is created for each FILE= option or BODY= option in the ODS HTML statement. The ODS HTML CLOSE statement closes the open HTML file and ends the output capture. The **Newfile.html** file contains the output from the PRINT, MEANS, and FREQ procedures.

29.Correct answer: a

The DATA step will continue to process those observations that satisfy the condition in

the first IF statement Although Joblevel might be set to *Beginner* for one or more observations, the condition on the second IF statement will evaluate as false, and the ELSE statement will execute and overwrite the value of Joblevel as *Unknown*.

You can learn about

- the IF statement in Creating SAS Data Sets from Raw Data
- the ELSE statement in **Creating and Managing Variables**.

30.Correct answer: d

Salary is defined as a character variable. Therefore, the value in the WHERE statement must be the character value 20,000 enclosed in quotation marks.

You can learn about the WHERE statement in Creating List Reports.

31.Correct answer: a

SAS scans the DATA step for syntax errors during the compilation phase. If there are syntax errors, those errors get written to the log. Most syntax errors prevent further processing of the DATA step.

You can learn about how SAS handles syntax errors in the DATA step in **Understanding DATA Step Processing**.

32.Correct answer: c

The title in a TITLE statement must be enclosed in a pair of matched quotation marks. Unbalanced quotation marks can cause problems for SAS. To hide an unmatched single quotation mark, surround the title text with matched double quotation marks.

You can learn about

- the TITLE statement in **Creating List Reports**
- unbalanced quotation marks in **Editing and Debugging SAS Programs**.

33.Correct answer: b

The CARDS statement is an alias for the DATALINES statement. In the INPUT statement, you must specify a dollar sign (\$) after the variable name in order to define a character variable. If you do not specify otherwise, the default storage length for a variable is 8. In the example above, the character value *hummingbird* is truncated to *hummingb*.

You can learn about

- the DATALINES statement in Creating SAS Data Sets from Raw Data
- the INPUT statement in Reading Free-Format Data
- the default storage length for variables in **Basic Concepts**.

34.Correct answer: **b**

The MERGE and BY statements allow you to match-merge two or more SAS data sets. The BY statement creates two temporary variables, First.Fname and Last.Fname for BY group processing. The SUM statement is used to add salary for each BY group. The variable on the left side of the plus sign is the variable that is retained and has an initial

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value of 0. The expression on the right side of the plus sign is added to the variable on the left side of the plus sign to create a grand total. The accumulating variable, totsal, is reset back to 0 when you encounter a new BY group value (First.Fname is true). To output just the totals for each BY group, use the explicit OUTPUT statement when you reach the last occurrence of each Fname value.

You can learn about the MERGE statement, the BY statement and match-merging in **Combining SAS Data Sets**.

35.Correct answer: c

The DATA step creates a temporary data set named **Group** and reads data from the permanent SAS data set named **Sasdata.Group** into it. The FILE statement creates a raw data file by writing out values for the variables Name and Age to the file that is specified within the quotation marks.

You can learn about

- temporary data sets in **Basic Concepts**
- the FILE statement in Creating SAS Data Sets from Raw Data.

36.Correct answer: **c**

You use the keyword DESCENDING in a BY statement to specify that data will be sorted by values in descending order. The DESCENDING keyword applies to the variable that is listed immediately after it. To sort on values of bonus within sorted values of employee, you list employee first in the BY statement.

You can learn about the DESCENDING keyword and the BY statement in **Creating List Reports**.

37.Correct answer: c

The LENGTH statement enables you to specify the length of a character variable. Since the LENGTH statement appears before the SET statement, SAS will set the length of jobcode to 12.

You can learn about the LENGTH statement in Creating and Managing Variables.

38. Correct answer: c

The CLASS statement specifies the category variable(s) for group processing. The VAR statement specifies the numeric variable(s) for which to calculate statistics.

You can learn about the CLASS statement and the VAR statement in **Producing Descriptive Statistics**.

39. Correct answer: b

The FILE= option identifies the file that contains the HTML output. The FILE= option is an alias for the BODY= option in the ODS HTML statement.

You can learn about the FILE= option in the ODS HTML statement in **Producing**

HTML Output.

40. Correct answer: c

TEMPORARY is a keyword used in the ARRAY statement to create temporary data elements. By default, the ARRAY statement creates new data set variables or references existing variables for use by the array.

You can learn about the _TEMPORARY_ keyword and the ARRAY statement in **Processing Variables with Arrays**.

41. Correct answer: a

Values for the variable age are missing in the output because the informat for age is coded incorrectly. Since age is standard numeric input, it should use the w.d informat to specify a field width of 3 in the INPUT statement.

You can learn about the w.d informat in **Reading Raw Data in Fixed Fields**.

42. Correct answer: d

By default, DATA step match-merges combine all observations in all input data sets. To include only unmatched observations from your output data set, you can use the IN= data set option to create and name a temporary variable that indicates whether the data set contributed to the current observations. If the value of the IN= variable is θ , the data set did not contribute to the current observation; if the value is θ , the data set did contribute to the current observation. You can use a subsetting IF statement to only include those observations that have a value of θ for the IN= variable of either the **Sasdata.Products** data set or the **Sasdata.Sales** data set. Since an unmatched observation might come from either input data set, you do not need to specify that the IN= variables for both **Sasdata.Products** and **Sasdata.Sales** have values of θ .

You can learn about the IN= data set option in **Combining SAS Data Sets**.

43. Correct answer: a

In the program above, the KEEP= option specifies that 5 variables (orig, dest, city, price, and equipment) are read from the input data set. All of these variables are output to **Labdata.Boston**. In the **Labdata.Dallas** output data set, the DROP= option specifies that city, dest, and equipment are excluded from the data set so that only orig and price are included.

You can learn about the KEEP= option in **Creating and Managing Variables**.

44. Correct answer: a

You can use the CONTENTS procedure to create SAS output that describes the contents of a library. _ALL_ requests a listing of all files in the library, and NODS suppresses the printing of detailed information about each file in the output.

You can learn about the CONTENTS procedure in **Referencing Files and Setting Options**.

45. Correct answer: d

The LENGTH statement specifies that the variable <code>city</code> has a length of 20 characters. The TRIM function in the assignment statement for <code>city2</code> removes trailing blanks from the value. However, the length of the <code>city2</code> variable is set to 20 because <code>city</code> has a length of 20, and SAS pads the trimmed value with extra blanks.

You can learn about

- the LENGTH statement in **Reading Free-Format Data**
- the TRIM function in **Transforming Data with SAS Functions**.

46. Correct answer: c

You must convert the value of salary from character to numeric in order to perform an arithmetic function on it. You use the INPUT function to convert a character value to a numeric value.

You can learn about the INPUT function in **Transforming Data with SAS Functions**.

47. Correct answer: c

The sum variable in a sum statement is automatically set to θ before the first observation is read from the data set. The sum variable in the statement above is increased by the value of θ on each iteration of the DO loop; the value of θ is set to θ on the first iteration of the DO loop and increases by θ on each additional iteration until it is greater than θ . Therefore, the value of Trip is equal to $\theta + 1 + 3 + 5$, which is θ .

You can learn about

- the sum statement in Creating and Managing Variables
- DO loops in Generating Data with DO Loops.

48. Correct answer: b

You use a DEFINE statement to describe how to order and use variables in your report. To specify Age as an order variable, you use the ORDER usage option in the DEFINE statement. An order variable orders the detail rows in a report according to their formatted values. By default, the order is ascending.

You can learn about the DEFINE statement and order variables in **Creating Enhanced** List and Summary Reports.

49. Correct answer: b

Unlike syntax errors, invalid data errors do not cause SAS to stop processing a program. SAS handles invalid data errors by assigning a missing value to the appropriate variable and writing a message to the SAS log.

You can learn about how SAS handles invalid data errors in **Creating SAS Data Sets** from Raw Data.

50. Correct answer: **b**

N and _ERROR_ are automatic variables that can be used for DATA step processing but that are not written to the output data set. _N_ counts the number of times that the DATA step begins to execute, and _ERROR_ signals the occurrence of an error that is caused by the data during execution. A value of 0 indicates no error while a value of 1 indicates one or more errors. In the program above, the value for date in the second observation is invalid.

You can learn about the automatic variables _N_ and _ERROR_ in **Understanding DATA Step Processing**.