



**Exam : A00-201**

**Title : SAS Base Programming**

**Ver : 11.30.06**

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**QUESTION 1**

In the following SAS program, the input data files are sorted by the NAMES variable:

```
libnametemp 'SAS-data-library';  
data temp.sales;  
merge temp.sales  
work.receipt;  
by names;  
run;
```

Which one of the following results occurs when this program is submitted?

- A. The program executes successfully and a temporary SAS data set is created.
- B. The program executes successfully and a permanent SAS data set is created.
- C. The program fails execution because the same SAS data set is referenced for both read and write operations.
- D. The program fails execution because the SAS data sets on the MERGE statement are in two different libraries.

Answer: B

---

**QUESTION 2**

When the following SAS program is submitted, the data set SASDATA.PRDSALES contains 5000 observations:

```
libnamesastemp 'SAS-data-library';  
options obs = 500;  
proc print data = sasdata.prdsales (firsttobs = 100);  
run;  
options obs = max;  
proc means data = sasdata.prdsales (firsttobs = 500);  
run;
```

How many observations are processed by each procedure?

- A. 400 for PROC PRINT  
4500 for PROC MEANS
- B. 401 for PROC PRINT  
4501 for PROC MEANS
- C. 401 for PROC PRINT  
4500 for PROC MEANS
- D. 500 for PROC PRINT  
5000 for PROC MEANS

Answer: B

---

**QUESTION 3**

The following SAS program is submitted:

```
data work.new;  
length word $7;  
amount = 7;  
if amount = 5 then word = 'CAT';  
else if amount = 7 then word = 'DOG';  
else work = 'NONE!!!';  
amount = 5;  
run;
```

Which one of the following represents the values of the AMOUNT and WORD variables?

- A. amount word  
5 DOG
- B. amount word  
5 CAT
- C. amount word  
7 DOG
- D. amount word  
7 ' ' (missing character value)

Answer: A

---

#### **QUESTION 4**

Which one of the following is true of the SUM statement in a SAS DATA step program?

- A. It is only valid in conjunction with a SUM function.
- B. It is not valid with the SET, MERGE and UPDATE statements.
- C. It adds the value of an expression to an accumulator variable and ignores missing values.
- D. It does not retain the accumulator variable value from one iteration of the SAS DATA step to the next.

Answer: C

---

#### **QUESTION 5**

The following SAS program is submitted:

```
data work.sets;  
do until (prod gt 6);  
prod + 1;  
end;  
run;
```

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

- A. 5
- B. 6

- C. 7
- D. 8

Answer: C

---

**QUESTION 6**

The following SAS program is submitted:

```
proc print data = sasuser.houses;  
run;  
<insert OPTIONS statement here>  
proc means data = sasuser.shoes;  
run;
```

Which one of the following OPTIONS statements resets the page number to 1 for the second report?

- A. option pageno = 1;
- B. option pagenum = 1;
- C. options reset pageno = 1;
- D. options reset pagenum = 1;

Answer: A

---

**QUESTION 7**

The contents of the raw data file PRODUCT are listed below:

```
----|----10---|----20---|----30  
24613 $25.31
```

The following SAS program is submitted:

```
data inventory;  
infile 'product';  
input idnum 5. @10 price;  
run;
```

Which one of the following is the value of the PRICE variable?

- A. 25.31
- B. \$25.31
- C. . (missing numeric value)
- D. No value is stored as the program fails to execute due to errors.

Answer: C

---

**QUESTION 8**

The contents of the raw data file TYPECOLOR are listed below:

```
----|----10---|----20---|----30  
daisyyellow
```

The following SAS program is submitted:

```
data flowers;
```

```
infile'typecolor';  
input type $ 1-5 +1 color $;  
run;
```

Which one of the following represents the values of the variables TYPE and COLOR?

- A. type color  
daisy yellow
- B. type color  
daisy ellow
- C. type color  
daisyyellow (missing character value)
- D. No values are stored as the program fails to execute due to syntax errors.

Answer: B

---

### **QUESTION 9**

A raw data record is listed below:

```
----|----10---|----20---|----30
```

son,Travis,

The following output is desired:

```
relation firstname
```

```
son Travis
```

Which one of the following SAS programs reads the data correctly?

- A. data family / dlm = ',';  
infile 'file-specification';  
input relation \$ firstname \$;  
run;
- B. option dlm = ',';  
data family;  
infile 'file-specification';  
input relation \$ firstname \$;  
run;
- C. data family;  
infile 'file-specification' option dlm = ',';  
input relation \$ firstname \$;  
run;
- D. data family;  
infile 'file-specification';  
input relation \$ firstname \$ / dlm = ',';  
run;

Answer: C

---

**QUESTION 10**

The following SAS program is submitted:

```
libnamerawdata1 'location of SAS data library';  
filename rawdata2 'location of raw data file';  
data work.testdata;  
infile<insert item here>  
input sales1 salse2;  
run;
```

Which one of the following is needed to complete the program correctly?

- A. rawdata1
- B. rawdata2
- C. 'rawdata1'
- D. 'rawdata2'

Answer: B

---

**QUESTION 11**

The following SAS program is submitted and reads 100 records from a raw data file:

```
data work.total;  
infile 'file-specification' end = eof;  
input name $ salary;  
totsal+ salary;  
<insert IF statement here>  
run;
```

Which one of the following IF statements writes the last observation to the output data set?

- A. if end = 0;
- B. if eof = 0;
- C. if end = 1;
- D. if eof = 1;

Answer: D

---

**QUESTION 12**

The contents of the raw data file FURNITURE are listed below:

```
----|----10---|----20---|----30
```

```
chair,,table
```

```
chair,couch,table
```

The following SAS program is submitted:

```
data stock;  
infile 'furniture' dsd;  
input item1 $ item2 $ item3 $;  
run;
```

Which one of the following is the value of the variable named ITEM2 in the first observation of the output data set?

- A. table
- B. ,table
- C. . (missing numeric value)
- D. ' ' (missing character value)

Answer: D

---

**QUESTION 13**

A raw data file is listed below:

```
RANCH,1250,2,1,Sheppard Avenue,"$64,000"
SPLIT,1190,1,1,Rand Street,"$65,850"
CONDO,1400,2,1.5,Market Street,"80,050"
TWOESTORY,1810,4,3,Garris Street,"$107,250"
RANCH,1500,3,3,Kemble Avenue,"$86,650"
SPLIT,1615,4,3,West Drive,"94,450"
SPLIT,1305,3,1.5,Graham Avenue,"$73,650"
```

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

```
data work.condo_ranch;
infile'file-specification' dsd;
input style $ @;
if style = 'CONDO' or style = 'RANCH' then
input sqfeet bedrooms baths street $ price : dollar10.;
run;
```

How many observations does the WORK.CONDO\_RANCH data set contain?

- A. 0
- B. 3
- C. 5
- D. 7

Answer: D

---

**QUESTION 14**

A raw data file is listed below:

```
RANCH,1250,2,1,Sheppard Avenue,"$64,000"
SPLIT,1190,1,1,Rand Street,"$65,850"
CONDO,1400,2,1.5,Market Street,"80,050"
TWOESTORY,1810,4,3,Garris Street,"$107,250"
RANCH,1500,3,3,Kemble Avenue,"$86,650"
SPLIT,1615,4,3,West Drive,"94,450"
SPLIT,1305,3,1.5,Graham Avenue,"$73,650"
```

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

```
data work.condo_ranch;
```

```
infile'file-specification' dsd;  
input style $ @;  
if style = 'CONDO' or style = 'RANCH';  
input sqfeet bedrooms baths street $ price : dollar10.;  
run;  
How many observations will the output data set contain?
```

- A. 0
- B. 3
- C. 5
- D. 7

Answer: B

---

**QUESTION 15**

The following SAS program is submitted:

```
data numrecords;  
infile 'file-specification';  
input @1 patient $15.  
relative $ 16-26 @;  
if relative = 'children' then  
input @54 diagnosis $15. @;  
else if relative = 'parents' then  
input @28 doctor $15.  
clinic $ 44-53  
@54 diagnosis $15. @;  
input age;  
run;
```

How many raw data records are read during each iteration of the DATA step during execution?

- A. 1
- B. 2
- C. 3
- D. 4

Answer: A

---

**QUESTION 16**

The following SAS program is submitted:

```
data work.empsalary;  
set work.people (in = inemp)  
work.money(in = insal);  
if insal and inemp;  
run;
```

The SAS data set WORK.PEOPLE has 5 observations, and the data set



WORK.MONEY has 7 observations.

How many observations will the data set WORK.EMPSALARY contain?

- A. 0
- B. 5
- C. 7
- D. 12

Answer: A

---

**QUESTION 17**

The contents of two SAS data sets named EMPLOYEE and SALARY are listed below:

EMPLOYEE SALARY

name age name salary

Bruce 30 Bruce 40000

Dan 35 Bruce 35000

Dan 37000

Dan .

The following SAS program is submitted:

```
data work.empsalary;
```

```
merge work.employee (in = inemp)
```

```
work.salary(in = insal);
```

```
by name;
```

```
if inemp and insal;
```

```
run;
```

How many observations will the data set WORK.EMPSALARY contain?

- A. 2
- B. 4
- C. 5
- D. 6

Answer: B

---

**QUESTION 18**

The SAS data sets WORK.EMPLOYEE and WORK.SALARY are listed below:

WORK.EMPLOYEE WORK.SALARY

fnameage fname salary

Bruce 30 Bruce 25000

Dan 40 Bruce 35000

Dan 25000

The following SAS program is submitted:

```
data work.empdata;
```

```
merge work.employee
```

```
work.salary;
```

```
by fname;  
totsal+ salary;  
run;
```

How many variables are output to the WORK.EMPDATA data set?

- A. 3
- B. 4
- C. 5
- D. No variables are output to the data set as the program fails to execute due to errors.

Answer: B

---

**QUESTION 19**

The SAS data sets WORK.EMPLOYEE and WORK.SALARY are shown below:

WORK.EMPLOYEE WORK.SALARY

fnameage name salary

Bruce 30 Bruce 25000

Dan 40 Bruce 35000

Dan 25000

The following SAS program is submitted:

```
data work.empdata;
```

```
<insert MERGE statement here>
```

```
by fname;
```

```
totsal+ salary;
```

```
run;
```

Which one of the following statements completes the merge of the two data sets by the FNAME variable?

- A. merge work.employee  
work.salary (fname = name);
- B. merge work.employee  
work.salary (name = fname);
- C. merge work.employee  
work.salary (rename = (fname = name));
- D. merge work.employee  
work.salary (rename = (name = fname));

Answer: D

---

**QUESTION 20**

The following SAS program is submitted:

```
proc sort data=work.employee;
```

```
by descending fname;
```

```
proc sort data=work.salary;
```

```
by descending fname;
```

```
data work.empdata;
```

```
merge work.employee  
work.salary;  
by fname;  
run;
```

Which one of the following statements explains why the program failed execution?

- A. The SORT procedures contain invalid syntax.
- B. The merged data sets are not permanent SAS data sets.
- C. The data sets were not merged in the order by which they were sorted.
- D. The RUN statements were omitted after each of the SORT procedures.

Answer: C

---

**QUESTION 21**

The following SAS SORT procedure step generates an output data set:

```
proc sort data = sasuser.houses out = report;  
by style;  
run;
```

In which library is the output data set stored?

- A. WORK
- B. REPORT
- C. HOUSES
- D. SASUSER

Answer: A

---

**QUESTION 22**

The following SAS DATA step is submitted:

```
libnametemp 'SAS-data-library';  
data temp.report;  
set sasuser.houses;  
newvar= price * 1.04;  
run;
```

Which one of the following statements is true regarding the program above?

- A. The program is reading from a temporary data set and writing to a temporary data set.
- B. The program is reading from a temporary data set and writing to a permanent data set.
- C. The program is reading from a permanent data set and writing to a temporary data set.
- D. The program is reading from a permanent data set and writing to a permanent data set.

Answer: D

---

**QUESTION 23**

Which one of the following SAS DATA steps saves the temporary data set named MYDATA as a permanent data set?

A. libname sasdata 'SAS-data-library';  
data sasdata.mydata;  
copy mydata;  
run;  
B. libname sasdata 'SAS-data-library';  
data sasdata.mydata;  
keep mydata;  
run;  
C. libname sasdata 'SAS-data-library';  
data sasdata.mydata;  
save mydata;  
run;  
D. libname sasdata 'SAS-data-library';  
data sasdata.mydata;  
set mydata;  
run;

Answer: D

---

**QUESTION 24**

The following SAS DATA step is submitted:

```
data sasdata.atlanta  
sasdata.boston  
work.portland  
work.phoenix;  
set company.prdsales;  
if region = 'NE' then output boston;  
if region = 'SE' then output atlanta;  
if region = 'SW' then output phoenix;  
if region = 'NW' then output portland;  
run;
```

Which one of the following is true regarding the output data sets?

- A. No library references are required.
- B. The data sets listed on all the IF statements require a library reference.
- C. The data sets listed in the last two IF statements require a library reference.
- D. The data sets listed in the first two IF statements require a library reference.

Answer: D

---

**QUESTION 25**

The following SAS DATA step executes on Monday, April 25, 2000:

```
data newstaff;  
set staff;  
start_date=today();
```

run;

Which one of the following is the value of the variable START\_DATE in the output data set?

- A. a character string with the value '04/25/2000'
- B. a character string with the value 'Monday, April 25, 2000'
- C. the numeric value 14725, representing the SAS date for April 25, 2000
- D. the numeric value 04252000, representing the SAS date for April 25, 2000

Answer: C

---

**QUESTION 26**

The following SAS program is submitted:

```
data work.new;  
mon= 3;  
day = 23;  
year =2000;  
date = mdy(mon,day,year);  
run;
```

Which one of the following is the value of the DATE variable?

- A. a character string with the value '23mar2000'
- B. a character string with the value '03/23/2000'
- C. a numeric value of 14692, which represents the SAS date value for March 23, 2000
- D. a numeric value of 3232000, which represents the SAS date value for March 23, 2000

Answer: C

---

**QUESTION 27**

The following SAS program is submitted:

```
data revenue;  
set year_1;  
var1 = mdy(1,15,1960);  
run;
```

Which one of the following values does the variable named VAR1 contain?

- A. 14
- B. 15
- C. 1151960
- D. '1/15/1960'

Answer: A

---

**QUESTION 28**

The following SAS program is submitted:

```
data work.report;
```

```
set work.sales_info;  
if qtr(sales_date) ge 3;  
run;
```

The SAS data set WORK.SALES\_INFO has one observation for each month in the year 2000 and the variable SALES\_DATE which contains a SAS date value for each of the twelve months.

How many of the original twelve observations in WORK.SALES\_INFO are written to the WORK.REPORT data set?

- A. 2
- B. 3
- C. 6
- D. 9

Answer: C

---

**QUESTION 29**

The following SAS program is submitted:?

```
libnametemp 'SAS-data-library';  
data work.new;  
set temp.jobs;  
format newdate mmddyy10.;  
qdate= qtr(newdate);  
ddate= weekday(newdate);  
run;  
proc print data = work.new;  
run;
```

The variable NEWDATE contains the SAS date value for April 15, 2000.

What output is produced if April 15, 2000 falls on a Saturday?

- A. Obs newdate qdate ddate  
1 APR152000 2 6
- B. Obs newdate qdate ddate  
1 04/15/2000 2 6
- C. Obs newdate qdate ddate  
1 APR152000 2 7
- D. Obs newdate qdate ddate  
1 04/15/2000 2 7

Answer: D

---

**QUESTION 30**

A raw data record is shown below:

07Jan2002

Which one of the following informats would read this value and store it as a SAS date value?

- A. date9.
- B. ddmonyy9.
- C. ddMMMyy9.
- D. ddmmmyyyy9.

Answer: A

---

**QUESTION 31**

The contents of the SAS data set PERM.JAN\_SALES are listed below:

VARIABLE NAME TYPE

idnum character variable

sales\_date numeric date value

A comma delimited raw data file needs to be created from the PERM.JAN\_SALES data set. The SALES\_DATE values need to be in a MMDDYY10 form.

Which one of the following SAS DATA steps correctly creates this raw data file?

- A. libname perm 'SAS-data-library';  
data\_null\_;  
set perm.jan\_sales;  
file 'file-specification' dsd = ',';  
put idnum sales\_date : mmddyy 10.;  
run;
- B. libname perm 'SAS-data-library';  
data\_null\_;  
set perm.jan\_sales;  
file 'file-specification' dlm = ',';  
put idnum sales\_date : mmddyy 10.;  
run;
- C. libname perm 'SAS-data-library';  
data\_null\_;  
set perm.jan\_sales;  
file 'file-specification';  
put idnum sales\_date : mmddyy 10. dlm = ',';  
run;
- D. libname perm 'SAS-data-library';  
data\_null\_;  
set perm.jan\_sales;  
file 'file-specification';  
put idnum sales\_date : mmddyy 10. dsd = ',';  
run;

Answer: B

---

**QUESTION 32**

The contents of the SAS data set named PERM.STUDENTS are listed below:

name age

Alfred 14

Alice 13

Barbara 13

Carol 14

The following SAS program is submitted using the PERM.STUDENTS data set as input:

```
Libname perm 'SAS-date-library';
```

```
data students;
```

```
set perm.students;
```

```
file 'file-specification';
```

```
put name $15. @5 age 2.;
```

```
run
```

Which one of the following represents the values written to the output raw data file?

A. ----|----10---|----20---|----30

Alfred 14

Alice 13

Barbara 13

Carol 14

B. ----|----10---|----20---|----30

Alfr14

Alic13

Barb13a

Caro14

C. ----|----10---|----20---|----30

Alfr14ed

Alic13e

Barb13ara

Caro14l

D. ----|----10---|----20---|----30

Alfred 14

Alice 13

Barbara 13

Carol 14

Answer: B

---

### **QUESTION 33**

The contents of the raw data file TEAM are listed below:

----|----10---|----20---|----30

Janice 10

Henri 11

Michael 11

Susan 12

The following SAS program is submitted:



```
data group;  
infile 'team';  
input name $15. age 2.;  
file 'file-specification';  
put name $15. =5 age 2.;  
run;
```

Which one of the following describes the output created?

- A. a raw data file only
- B. a SAS data set named GROUP only
- C. a SAS data set named GROUP and a raw data file
- D. No output is generated as the program fails to execute due to errors.

Answer: C

---

**QUESTION 34**

The following SAS program is submitted:

```
data_null_;  
set old;  
put sales1 sales2;  
run;
```

Where is the output written?

- A. the SAS log
- B. the raw data file that was opened last
- C. the SAS output window or an output file
- D. the data set mentioned in the DATA statement

Answer: A

---

**QUESTION 35**

The following SAS program is submitted:

```
data_null_;  
set old (keep = prod sales1 sales2);  
file 'file-specification';  
put sales1 sales2;  
run;
```

Which one of the following default delimiters separates the fields in the raw data file created?

- A. : (colon)
- B. (space)
- C. , (comma)
- D. ;(semicolon)

Answer: B

---

**QUESTION 36**

The following SAS program is submitted:

```
data allobs;
```

```
set sasdata.origin (firstobs = 75 obs = 499);
```

```
run;
```

The SAS data set SASDATA.ORIGIN contains 1000 observations.

How many observations does the ALLOBS data set contain?

- A. 424
- B. 425
- C. 499
- D. 1000

Answer: B

---

**QUESTION 37**

The SAS data set named COMPANY.PRICES is listed below:

COMPANY.PRICES

prodid	price	producttype	sales	returns
K12S	5.10	NETWORK	15	2
B132S	2.34	HARDWARE	300	10
R18KY2	1.29	SOFTWARE	25	5
3KL8BY	6.37	HARDWARE	125	15
DY65DW	5.60	HARDWARE	45	5
DGTY23	4.55	HARDWARE	67	2

The following SAS program is submitted:

```
libnamecompany 'SAS-data-library';
```

```
data hware inter soft;
```

```
set company.prices (keep = producttype price);
```

```
if price le 5.00;
```

```
if producttype = 'HARDWARE' then output HWARE;
```

```
else if producttype = 'NETWORK' then output INTER;
```

```
else if producttype = 'SOFTWARE' then output SOFT;
```

```
run;
```

How many observations does the HWARE data set contain?

- A. 0
- B. 2
- C. 4
- D. 6

Answer: B

---

**QUESTION 38**

The SASDATA.BANKS data set has five observations when the following SAS

```
program is submitted:
libnamesasdata 'SAS-date-library';
data allobs;
set sasdata.banks;
capital=0;
do year = 2000 to 2020 by 5;
capital + ((capital+2000) * rate);
output;
end;
```

How many observations will the ALLOBS data set contain?

- A. 5
- B. 15
- C. 20
- D. 25

Answer: D

---

**QUESTION 39**

A raw data file is listed below:

----|----10---|----20---|----30

John McCloskey 35 71

June Rosesette 10 43

TinekeJones 9 37

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

```
data work.homework;
infile 'file-specification';
input name $ age height;
if age LE 10;
run;
```

How many observations will the WORK.HOMEWORK data set contain?

- A. 0
- B. 2
- C. 3
- D. No data set is created as the program fails to execute due to errors.

Answer: C

---

**QUESTION 40**

The following SAS program is submitted:

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

Which one of the following is produced as output?

- A. the data portion of every data set in the SASUSER library

- B. the data portion of the data set SASUSER.AIRPLANES only
- C. the descriptor portion of every data set in the SASUSER library
- D. the descriptor portion of the data set SASUSER.AIRPLANES only

Answer: D

---

**QUESTION 41**

The following SAS program is submitted:

```
proc datasets lib = sasuser;  
contents data = class varnum;  
quit;
```

Which one of the following is the purpose of the VARNUM option?

- A. to print a list of variable names
- B. to print the total number of variables
- C. to print a list of the variables in alphabetic order
- D. to print a list of the variables in the order they were created

Answer: D

---

**QUESTION 42**

Which one of the following SAS procedures displays the data portion of a SAS data set?

- A. PRINT
- B. FSLIST
- C. CONTENTS
- D. DATASETS

Answer: A

---

**QUESTION 43**

On which portion(s) of a SAS data set does the PRINT procedure report?

- A. the data portion only
- B. the descriptor portion only
- C. the descriptor portion and the data portion
- D. neither the data portion nor the descriptor portion

Answer: A

---

**QUESTION 44**

The following SAS program is submitted:

```
data work.test;  
set work.staff (keep = jansales febsales marsales);  
array diff_sales{3} difsales1 - difsales3;
```

```
array monthly{3} jansales febsales marsales;  
run;
```

Which one of the following represents the new variables that are created?

- A. JANSALES, FEBSALES and MARSALES
- B. MONTHLY1, MONTHLY2 and MONTHLY3
- C. DIFSALES1, DIFSALES2 and DIFSALES3
- D. DIFF\_SALES1, DIFF\_SALES2 and DIFF\_SALES3

Answer: C

---

**QUESTION 45**

The following SAS program is submitted:

```
data work.test;  
array agent{4} $ 12 sales1 - sales4;  
run;
```

Which one of the following represents the variables that are contained in the output data set?

- A. SALES1, SALES2, SALES3, SALES4
- B. AGENTS1, AGENTS2, AGENTS3, AGENTS4
- C. None, the DATA step fails because the ARRAY statement can reference only numeric data.
- D. None, the DATA step fails because the ARRAY statement can reference only pre-existing variables.

Answer: A

---

**QUESTION 46**

The following SAS program is submitted:

```
data stats;  
set revenue;  
array weekly{5} mon tue wed thus fri;  
<insert DO statement here>  
total = weekly{i} * .25;
```

Which one of the following DO statements completes the program and processes the elements of the WEEKLY array?

- A. do i = 1 to 5;
- B. do weekly {i} = 1 to 5;
- C. do i = mon tue wed thu fri;
- D. A DO loop cannot be used because the variables referenced do not end in a digit.

Answer: A

---

**QUESTION 47**

Which one of the following statements is true regarding the name of a SAS array?

- A. It is saved with the data set.
- B. It can be used in procedures.
- C. It exists only for the duration of the DATA step.
- D. It can be the same as the name of a variable in the data set.

Answer: C

---

**QUESTION 48**

The observations in the SAS data set WORK.TEST are ordered by the values of the variable SALARY.

The following SAS program is submitted:

```
proc sort data = work.test out = work.testsorted;  
by name;  
run;
```

Which one of the following is the result of the SAS program?

- A. The data set WORK.TEST is stored in ascending order by values of the NAME variable.
- B. The data set WORK.TEST is stored in descending order by values of the NAME variable.
- C. The data set WORK.TESTSORTED is stored in ascending order by values of the NAME variable.
- D. The data set WORK.TESTSORTED is stored in descending order by values of the NAME variable.

Answer: C

---

**QUESTION 49**

The SAS data set WORK.AWARDS is listed below:

fnamepoints

Amy 2

Amy 1

Gerard 3

Wang 3

Wang 1

Wang 2

The following SAS program is submitted:

```
proc sort data = work.awards;  
by descending fname points;  
run;
```

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

- A. Wang 3

Gerard 3  
Wang 2  
Amy 2  
Wang 1  
Amy 1  
B. Wang 3  
Wang 2  
Wang 1  
Gerard 3  
Amy 2  
Amy 1  
C. Wang 3  
Wang 1  
Wang 2  
Gerard 3  
Amy 2  
Amy 1  
D. Wang 1  
Wang 2  
Wang 3  
Gerard 3  
Amy 1  
Amy 2

Answer: D

---

**QUESTION 50**

The SAS data set EMPLOYEE\_INFO is listed below:

IDNumber	Expenses
2542	100.00
3612	133.15
2198	234.34
2198	111.12

The following SAS program is submitted:

```
proc sort data = employee_info;  
<insert BY statement here>  
run;
```

Which one of the following BY statements completes the program and sorts the data sequentially by ascending expense values within each ascending IDNUMBER value?

- A. by Expenses IDNumber;
- B. by IDNumber Expenses;
- C. by ascending (IDNumber Expenses);
- D. by ascending IDNumber ascending Expenses;

Answer: B

**QUESTION 51**

The following SAS program is submitted:

```
libnamecompany 'SAS-data-library';
```

```
proc sort data = company.payroll;
```

```
by EmployeeIDNumber;
```

```
run;
```

Write access has been granted to the COMPANY library.

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

- A. COMPANY.PAYROLL is recreated in sorted order by EmployeeIDNumber.
- B. COMPANY.PAYROLL is stored in original order, and a new data set PAYROLL is created in sorted order by EmployeeIDNumber.
- C. COMPANY.PAYROLL is stored in original order, and a new data set COMPANY.PAYROLLSORTED is created in sorted order by EmployeeIDNumber.
- D. COMPANY.PAYROLL is recreated in sorted order by EmployeeIDNumber, and a new data set PAYROLL is created in sorted order by EmployeeIDNumber.

Answer: A

---

**QUESTION 52**

The SAS data set QTR1\_REVENUE is listed below:

destination revenue

YYZ 53634

FRA 62129

FRA 75962

RDU 76254

YYZ 82174

The following SAS program is submitted:

```
proc sort data = qtr1_revenue;
```

```
by destination descending revenue;
```

```
run;
```

Which one of the following represents the first observation in the output data set?

- A. destination revenue  
YYZ 82174
- B. destination revenue  
YYZ 53634
- C. destination revenue  
FRA 62129
- D. destination revenue  
FRA 75962

Answer: D

---



**QUESTION 53**

The SAS data set EMPLOYEE\_INFO is listed below:

IDNumberExpenses

2542 100.00

3612 133.15

2198 234.34

2198 111.12

The following SAS program is submitted:

```
proc sort data = employee_info;
```

```
<insert BY statement here>
```

```
run;
```

Which one of the following BY statements completes the program and sorts the data sequentially by descending expense values within each descending IDNUMBER value?

- A. by descending IDNumber Expenses;
- B. by (IDNumber Expenses) descending;
- C. by IDNumber descending Expenses descending;
- D. by descending IDNumber descending Expenses;

Answer: D

---

**QUESTION 54**

The following SAS program is submitted:

```
data work.new;
```

```
length word $7;
```

```
amount = 4;
```

```
if amount = 4 then word = 'FOUR';
```

```
else if amount = 7 then word = 'SEVEN';
```

```
else word = 'NONE!!!';
```

```
amount = 7;
```

```
run;
```

Which one of the following represents the values of the AMOUNT and WORD variables?

- A. amount word  
7 FOUR
- B. amount word  
7 SEVEN
- C. amount word  
4 FOUR
- D. amount word  
4 '' (missing character value)

Answer: A

---

**QUESTION 55**

The following SAS program is submitted:

```
data work.flights;  
destination = 'CPH';  
select(destination);  
when('LHR') city = 'London';  
when('CPH') city = 'Copenhgen';  
otherwise;  
end;  
run;
```

Which one of the following is the value of the CITY variable?

- A. London
- B. Copenh
- C. Copenhagen
- D. '' (missing character value)

Answer: B

---

**QUESTION 56**

The following SAS program is submitted:

```
data work.flights;  
destination = 'cph';  
select(destination);  
when('LHR') city = 'London';  
when('CPH') city = 'Copenhgen';  
otherwise city = 'Other';  
end;  
run;
```

Which one of the following is the value of the CITY variable?

- A. Other
- B. Copenh
- C. Copenhagen
- D. '' (missing character value)

Answer: A

---

**QUESTION 57**

The SAS data set named WORK.TEST is listed below:

```
capacity airplanetype staff  
150 Large 10
```

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

- A. data work.test;  
capacity = 150;

```
if 100 le capacity le 200 then
  airplanetype = 'Large' and staff = 10;
else airplanetype = 'Small' and staff = 5;
run;
B. data work.test;
  capacity = 150;
  if 100 le capacity le 200 then
    do;
      airplanetype = 'Large';
      staff = 10;
    end;
  else
    do;
      airplanetype = 'Small';
      staff = 5;
    end;
  run;
C. data work.test;
  capacity = 150;
  if 100 le capacity le 200 then
    do;
      airplanetype = 'Large';
      staff = 10;
    else
      do;
        airplanetype = 'Small';
        staff = 5;
      end;
    run;
D. data work.test;
  capacity = 150;
  if 100 le capacity le 200 then;
  airplanetype = 'Small';
  staff = 5;
else;
airplanetype = 'Large';
staff = 10;
run;
```

Answer: B

---

**QUESTION 58**

The following SAS program is submitted:

```
data work.one;
  x = 3;
  y = 2;
```

```
z = x ** y;  
run;
```

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

- A. 6
- B. 9
- C. . (missing numeric value)
- D. The program fails to execute due to errors.

Answer: B

---

**QUESTION 59**

The following SAS program is submitted:

```
data work.staff;  
JobCategory= 'FA';  
JobLevel= '1';  
jobCategory= JobCategory || JobLevel;  
run;
```

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

- A. FA
- B. FA1
- C. FA 1
- D. ' ' (missing character value)

Answer: A

---

**QUESTION 60**

The following SAS program is submitted:

```
data work.passengers;  
if OrigPassengers = . then  
OrigPassengers=100;  
TransPassengers= 100;  
OrigPassengers= .;  
NonPaying= 10;  
TotalPassengers= OrigPassengers + TransPassengers;  
run;
```

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

- A. 100
- B. 110
- C. 200
- D. . (missing numeric value)

Answer: D

---

**QUESTION 61**

The following SAS program is submitted:

```
data work.passengers;  
if OrigPassengers = . then  
OrigPassengers=100;  
TransPassengers= 100;  
OrigPassengers= .;  
NonPaying= 10;  
TotalPassengers= sum (OrigPassengers, TransPassengers);  
run;
```

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

- A. 100
- B. 110
- C. 200
- D. . (missing numeric value)

Answer: A

---

**QUESTION 62**

The following SAS program is submitted:

```
data work.company;  
set work.dept1(keep = jobcode)  
work.dept2(rename = (jcode = jobcode));  
run;
```

Which one of the following is the result?

- A. The variable JCODE is written to the output data set.
- B. The variable JOBCODE is written to the output data set.
- C. Neither variable JCODE nor JOBCODE is written to the output data set.
- D. The program fails to execute due to errors.

Answer: B

---

**QUESTION 63**

Which one of the following SAS statements renames two variables?

- A. set work.dept1  
work.dept2(rename = (jcode = jobcode)  
(sal = salary));
- B. set work.dept1  
work.dept2(rename = (jcode = jobcode

```
sal = salary));  
C. set work.dept1  
work.dept2(rename = jcode = jobcode  
sal = salary);  
D. set work.dept1  
work.dept2(rename = (jcode jobcode)  
(sal salary));
```

Answer: B

---

**QUESTION 64**

The following SAS DATA step is submitted:

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

The WORK.DEPARTMENT SAS data set contains a character variable named JOBCODE with a length of 5.

Which one of the following is the length of the variable JOBCODE in the output data set?

- A. 5
- B. 8
- C. 12
- D. The length can not be determined as the program fails to execute due to errors.

Answer: A

---

**QUESTION 65**

The following SAS program is submitted:

```
data work.accounting;  
set work.dept1 work.dept2;  
run;
```

A character variable named JOBCODE is contained in both the WORK.DEPT1 and WORK.DEPT2 SAS data sets. The variable JOBCODE has a length of 5 in the WORK.DEPT1 data set and a length of 7 in the WORK.DEPT2 data set.

Which one of the following is the length of the variable JOBCODE in the output data set?

- A. 5
- B. 7
- C. 8
- D. 12

Answer: A

---

**QUESTION 66**

The following SAS program is submitted:

```
libnamesasdata 'SAS-data-library';  
data test;  
set sasdata.chemists (keep = job_code);  
if job_code = 'chem3'  
then description = 'Senior Chemist';  
run;
```

The variable JOB\_CODE is a character variable with a length of 6 bytes.

Which one of the following is the length of the variable DESCRIPTION in the output data set?

- A. 6 bytes
- B. 8 bytes
- C. 14 bytes
- D. 200 bytes

Answer: C

---

**QUESTION 67**

The following SAS program is submitted:

```
data work.total;  
set work.salary(kep = department wagherate);  
by department;  
if first.department then payroll = 0;  
payroll + wagherate;  
if last.department;  
run;
```

The SAS data set named WORK.SALARY contains 10 observations for each department, currently ordered by DEPARTMENT.

Which one of the following is true regarding the program above?

- A. The BY statement in the DATA step causes a syntax error.
- B. FIRST.DEPARTMENT and LAST.DEPARTMENT are variables in the WORK.TOTAL data set.
- C. The values of the variable PAYROLL represent the total for each department in the WORK.SALARY data set.
- D. The values of the variable PAYROLL represent a total for all values of WAGERATE in the WORK.SALARY data set.

Answer: C

---

**QUESTION 68**

The following SAS program is submitted:

```
data work.total;  
set work.salary(kep = department wagherate);
```

```
by department;  
if first.department then payroll = 0;  
payroll + wagerate;  
if last.department;  
run;
```

The SAS data set WORK.SALARY, currently ordered by DEPARTMENT, contains 100 observations for each of 5 departments.

Which one of the following represents how many observations the WORK.TOTAL data set contains?

- A. 5
- B. 20
- C. 100
- D. 500

Answer: A

---

**QUESTION 69**

A raw data file is listed below:

```
----|----10---|----20---|----30
```

squash 1.10

apples 2.25

juice 1.69

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

```
data groceries;  
infile'file-specification';  
input item $ cost;  
<insert statement(s) here>
```

Which one of the following completes the program and produces a grand total for all COST values?

- A. grandtot = sum cost;
- B. grandtot = sum(grandtot,cost);
- C. retain grandtot 0;  
grandtot = sum(grandtot,cost);
- D. grandtot = sum(grandtot,cost);  
output grandtot;

Answer: C

---

**QUESTION 70**

A raw data file is listed below:

```
----|----10---|----20---|----30
```

1901 2

1905 1

1910 6



1925 .

1941 1

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

```
data coins;
```

```
infile'file-specification';
```

```
input year quantity;
```

```
<insert statement(s) here>
```

```
run;
```

Which one of the following completes the program and produces a non-missing value for the variable TOTQUANTITY in the last observation of the output data set?

A. totquantity + quantity;

B. totquantity = sum(totquantity + quantity);

C. totquantity 0;

sum totquantity;

D. retain totquantity 0;

totquantity = totquantity + quantity;

Answer: A

---

#### **QUESTION 71**

Which one of the following is true of the RETAIN statement in a SAS DATA step program?

A. It can be used to assign an initial value to \_N\_ .

B. It is only valid in conjunction with a SUM function.

C. It has no effect on variables read with the SET, MERGE and UPDATE statements.

D. It adds the value of an expression to an accumulator variable and ignores missing values.

Answer: C

---

#### **QUESTION 72**

The following SAS program is submitted:

```
data work.test;
```

```
First = 'Ipswich, England';
```

```
City = substr(First,1,7);
```

```
City_Country= City!!; '!!'England';
```

```
run;
```

Which one of the following is the value of the variable CITY\_COUNTRY in the output data set?

A. Ipswich!!

B. Ipswich, England

C. Ipswich, 'England'

D. Ipswich , England

Answer: D

---

**QUESTION 73**

The following SAS program is submitted:

```
data work.test;  
First = 'Ipswich, England';  
City_Country= substr(First,1,7)!!', '!!'England';  
run;
```

Which one of the following is the length of the variable CITY\_COUNTRY in the output data set?

- A. 6
- B. 7
- C. 17
- D. 25

Answer: D

---

**QUESTION 74**

The following SAS program is submitted:

```
data work.test;  
Title = 'A Tale of two Cities, Charles j.Dickens';  
Word = scan(title,3,' ');  
run;
```

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

- A. T
- B. of
- C. Dickens
- D. ' ' (missing character value)

Answer: B

---

**QUESTION 75**

The following SAS program is submitted:

```
data work.test;  
Author = 'Christie, Agatha';  
First = substr(scan(author,2,' '),1,1);  
run;
```

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

- A. A
- B. C

- C. Agatha
- D. '' (missing character value)

Answer: A

---

**QUESTION 76**

The following SAS program is submitted:

```
data work.test;  
Author = 'Agatha Christie';  
First = substr(scan(author,1,' '),1,1);  
run;
```

Which one of the following is the length of the variable FIRST in the output data set?

- A. 1
- B. 6
- C. 15
- D. 200

Answer: D

---

**QUESTION 77**

Which one of the following SAS statements correctly computes the average of four numerical values?

- A. average = mean(num1 - num4);
- B. average = mean(of num1 - num4);
- C. average = mean(of num1 to num4);
- D. average = mean(num1 num2 num3 num4);

Answer: B

---

**QUESTION 78**

The following SAS program is submitted:

```
data work.retail;  
cost = '20000';  
total = .10 * cost;  
run;
```

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

- A. 2000
- B. '2000'
- C. . (missing numeric value)
- D. '' (missing character value)

Answer: A

---

**QUESTION 79**

The following SAS program is submitted:

```
data work.products;
```

```
Product_Number=5461;
```

```
Item = '1001';
```

```
Item_Reference=Item||'/'||Product_Number;
```

```
run;
```

Which one of the following is the value of the variable ITEM\_REFERENCE in the output data set?

A. 1001/5461

B. 1001/ 5461

C. . (missing numeric value)

D. The value can not be determined as the program fails to execute due to errors.

Answer: B

---

**QUESTION 80**

The following SAS program is submitted:

```
data work.month;
```

```
date = input('13mar2000',date9.);
```

```
run;
```

Which one of the following represents the type and length of the variable DATE in the output data set?

A. numeric, 8 bytes

B. numeric, 9 bytes

C. character, 8 bytes

D. character, 9 bytes

Answer: A

---

**QUESTION 81**

The following SAS program is submitted:

```
data work.month;
```

```
date = put('13,mar2000'd,ddmmyy10.);
```

```
run;
```

Which one of the following represents the type and length of the variable DATE in the output data set?

A. numeric, 8 bytes

B. numeric, 10 bytes

C. character, 8 bytes

D. character, 10 bytes

Answer: D

---

**QUESTION 82**

A raw data record is listed below:

----|----10---|----20---|----30

Printing 750

The following SAS program is submitted:

```
data bonus;
```

```
infile'file-specification';
```

```
input dept $ 1 - 11 number 13 - 15;
```

```
<insert code here>
```

```
run;
```

Which one of the following SAS statements completes the program and results in a value of 'Printing750' for the DEPARTMENT variable?

A. department = trim(dept) || number;

B. department = dept || input(number,3.);

C. department = trim(dept) || put(number,3.);

D. department = input(dept,11.) || input(number,3.);

Answer: C

---

**QUESTION 83**

A raw data record is listed below:

----|----10---|----20---|----30

1999/10/25

The following SAS program is submitted:

```
data projectduration;
```

```
infile' file-specification';
```

```
input date $ 1 - 10;
```

```
<insert statement here>
```

```
run;
```

Which one of the following statements completes the program above and computes the duration of the project in days as of today's date?

A. duration = today( ) - put(date,ddmmyy 10.);

B. duration = today( ) - put(date,yymmdd 10.);

C. duration = today( ) - input(date,ddmmyy 10.);

D. duration = today( ) - input(date,yymmdd 10.);

Answer: D

---

**QUESTION 84**

The following SAS program is submitted:

```
data work.sales;  
do year = 1 to 5;  
do month = 1 to 12;  
x + 1;  
end;  
end;  
run;
```

Which one of the following represents how many observations are written to the WORK.SALES data set?

- A. 0
- B. 1
- C. 5
- D. 60

Answer: B

---

**QUESTION 85**

The following SAS program is submitted:

```
data work.pieces;  
do while (n lt 6);  
n + 1;  
end;  
run;
```

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

- A. 4
- B. 5
- C. 6
- D. 7

Answer: C

---

**QUESTION 86**

The following SAS program is submitted:

```
data work.clients;  
calls = 6;  
do while (calls le 6);  
calls + 1;  
end;  
run;
```

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

- A. 4
- B. 5

- C. 6
- D. 7

Answer: D

---

**QUESTION 87**

The SAS data set BANKS is listed below:

BANKS

name rate

FirstCapital0.0718

DirectBank0.0721

VirtualDirect0.0728

The following SAS program is submitted:

```
data newbank;
```

```
do year = 1 to 3;
```

```
set banks;
```

```
capital + 5000;
```

```
end;
```

```
run;
```

Which one of the following represents how many observations and variables will exist in the SAS data set NEWBANK?

- A. 0 observations and 0 variables
- B. 1 observations and 4 variables
- C. 3 observations and 3 variables
- D. 9 observations and 2 variables

Answer: B

---

**QUESTION 88**

The SAS data set SASUSER.HOUSES contains a variable PRICE which has been assigned a permanent label of "Asking Price".

Which one of the following SAS programs temporarily replaces the label "Asking Price" with the label "Sale Price" in the output?

A. 

```
proc print data = sasuser.houses;
```

```
label price = "sale Price";
```

```
run;
```

B. 

```
proc print data = sasuser.houses label;
```

```
label price "Sale Price";
```

```
run;
```

C. 

```
proc print data = sasuser.houses label;
```

```
label price "Sale Price";
```

```
run;
```

D. 

```
proc print data = sasuser.houses label = "Sale Price";
```

```
run;
```

Answer: C

---

**QUESTION 89**

The value 110700 is stored in a numeric variable.

Which one of the following SAS formats is used to display the value as \$110,700.00 in a report?

- A. comma8.2
- B. comma11.2
- C. dollar8.2
- D. dollar11.2

Answer: D

---

**QUESTION 90**

A realtor has two customers. One customer wants to view a list of homes selling for less than \$60,000. The other customer wants to view a list of homes selling for greater than \$100,000.

Assuming the PRICE variable is numeric, which one of the following PRINT procedure steps will select all desired observations?

- A. proc print data = sasuser.houses;  
where price lt 60000;  
where price gt 100000;  
run;
- B. proc print data = sasuser.houses;  
where price lt 60000 or price gt 100000;  
run;
- C. proc print data = sasuser.houses;  
where price lt 60000 and price gt 100000;  
run;
- D. proc print data = sasuser.houses;  
where price lt 60000 or where price gt 100000;  
run;

Answer: B

---

**QUESTION 91**

The following SAS program is submitted:

```
proc report data = work.houses nowd;  
column style price;  
where prices <100000;  
<insert DEFINE statements here>  
title;  
run;
```



Exhibit: the output from the REPORT procedure.

style	price
CONDO	80,050
	79,350
	64,000
RANCH	86,650
	89,100
	34,550
SPLIT	65,850
	94,450
	73,650
TWO STORY	55,850
	69,250

Assume permanent variable labels have been assigned.

Which one of the following completes the program and produces the output displayed in the exhibit?

- A. define style / display width = 9;  
define price / sum format = comma9. width = 10;
- B. define style / width = 9;  
define price / sum format = comma9. width = 10;
- C. define style / group width = 9;  
define price / sum format = comma9. width = 10;
- D. define style / order width = 9;  
define price / sum format = comma9. width = 10;

Answer: D

---

**QUESTION 92**

The following SAS program is submitted:

```
proc report data = sasuser.houses nowd headline headskip;  
column style price;  
where price <100000;  
<insert code here>  
title;  
run;
```

Exhibit: output from the REPORT procedure.

Style	Price
RANCH	\$64,000
SPLIT	\$65,850
CONDO	\$80,050
RANCH	\$86,650
SPLIT	\$94,450
SPLIT	\$73,650
CONDO	\$79,350
TWO STORY	\$55,850
RANCH	\$89,100
TWO STORY	\$69,250
RANCH	\$34,550

Assuming that the PRICE variable is numeric, which one of the following completes the program and produces the output displayed in the exhibit?

- A. define style / group 'Style';  
define price / mean 'Price' format = dollar9.;
- B. define style / display 'Style';  
define price / across 'Price' format = dollar9.;
- C. define style / display 'Style';  
define price / sum 'Price' format = dollar9.;
- D. define style / order 'Style';  
define price / mean 'Price' format = dollar9.;

Answer: C

---

**QUESTION 93**

The following SAS program is submitted:

```
proc sort data = sasuser.houses out = houses;  
by style;  
run;  
proc print data = houses;  
<insert statement(s) here>  
run;
```

Click on the Exhibit button to view the report produced.

style bedrooms baths price

CONDO 2 1.5 80050

3 2.5 79350

4 2.5 127150

2 2.0 110700

RANCH 2 1.0 64000

3 3.0 86650

3 1.0 89100

1 1.0 34550

SPLIT 1 1.0 65850

4 3.0 94450

3 1.5 73650

TWOSTORY 4 3.0 107250

2 1.0 55850

2 1.0 69250

4 2.5 102950

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

- A. id style;
- B. id style;  
var style bedrooms baths price;
- C. id style;

```
var style bedrooms baths price;  
D. id style;  
by style;  
var style bedrooms baths price;
```

Answer: C

---

**QUESTION 94**

Unless specified, which variables and data values are used to calculate statistics in the MEANS procedure?

- A. non-missing numeric variable values only
- B. missing numeric variable values and non-missing numeric variable values only
- C. non-missing character variables and non-missing numeric variable values only
- D. missing character variables, non-missing character variables, missing numeric variable values, and non-missing numeric variable values

Answer: A

---

**QUESTION 95**

Exhibit: Output of a FREQ procedure.

The FREQ Procedure				
Style of homes				
style	Frequency	Percent	Cumulative Frequency	Cumulative Percent
CONDO	4	26.67	4	26.67
RANCH	4	26.67	8	53.33
SPLIT	3	20.00	11	73.33
TWOSTORY	4	26.67	15	100.00

  

Number of bedrooms				
bedrooms	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1	2	13.33	2	13.33
2	5	33.33	7	46.67
3	4	26.67	11	73.33
4	4	26.67	15	100.00

The variable STYLE has a permanent label of "Style of homes" and the variable BEDROOMS has a permanent label of "Number of bedrooms".

Which one of the following SAS programs produced the output shown in the exhibit?

- A. 

```
proc freq data = sasuser.houses;  
tables style and bedrooms;  
run;
```
- B. 

```
proc freq data = sasuser.houses;  
tables style * bedrooms;  
run;
```

C. proc freq data = sasuser.houses;  
tables style , bedrooms;  
run;  
D. proc freq data = sasuser.houses;  
tables style;  
tables bedrooms;  
run;

Answer: D

---

**QUESTION 96**

Exhibit: listing of the SASUSER.HOUSES data set.

Obs	style	sqfeet	bedrooms	baths	street	price
1	RANCH	1250	2	1.10	Sheppard Avenue	\$64,000
2	SPLIT	1190	1	1.0	Rand Street	\$65,850
3	CONDO	1400	2	1.5	Market Street	\$80,050
4	TWOSTORY	1810	4	3.0	Garris Street	\$107,250
5	RANCH	1500	3	3.0	Kemble Avenue	\$86,650
6	SPLIT	1615	4	3.0	West Drive	\$94,450
7	SPLIT	1305	3	1.5	Graham Avenue	\$73,650
8	CONDO	1390	3	2.5	Hampshire Avenue	\$79,350
9	TWOSTORY	1040	2	1.0	Sanders Road	\$55,850
10	CONDO	2105	4	2.5	Jeans Avenue	\$127,150
11	RANCH	1535	3	3.0	State Highway	\$89,100
12	TWOSTORY	1240	2	1.0	Fairbanks Circle	\$69,250
13	RANCH	720	1	1.0	Nicholson Drive	\$34,550
14	TWOSTORY	1745	4	2.5	Highland Road	\$102,950
15	CONDO	1860	2	2.0	Arcata Avenue	\$110,700

The following SAS program is submitted:

```
proc report data = sasuser.houses nowd headline;  
column style price;  
where prices lt 100000;  
<insert DEFINE statement here>  
define price / mean width = 9;  
title;  
run;
```

The following output is created by the REPORT procedure:

```
style price  
CONDO $79,700  
RANCH $68,575  
SPLIT $77,983  
TWOSTORY $62,550
```

Which one of the following DEFINE statements completes the above program and produces the above output?

- A. define style / order width = 9;
- B. define style / group width = 9;
- C. define style / across width = 9;
- D. define style / display width = 9;

Answer: B

---

**QUESTION 97**

The following SAS program is submitted:

```
proc means data = sasuser.houses std mean max;  
varsqfeet;  
run;
```

Which one of the following is needed to display the standard deviation with only two decimal places?

- A. Add the option MAXDEC = 2 to the MEANS procedure statement.
- B. Add the statement MAXDEC = 7.2; in the MEANS procedure step.
- C. Add the statement FORMAT STD = 7.2; in the MEANS procedure step.
- D. Add the option FORMAT = 7.2 option to the MEANS procedure statement.

Answer: A

---

**QUESTION 98**

The following SAS program is submitted:

```
footnote1 'Sales Report for last Mounth';  
footnote2 'Selected Products Only';  
footnote3 'All Regions';  
footnote4 'All Figure in Thousands of Dollars';  
proc print data = sasuser.shoes;  
footnote2 'All products';  
run;
```

Which one of the following contains the footnote text that is displayed in the report?

- A. All Products
- B. Sales Report for Last Month  
All Products
- C. All Products  
All Regions  
All Figures in Thousands of Dollars
- D. Sales Report for Last Month  
All Products  
All Regions  
All Figures in Thousands of Dollars

Answer: B

---

**QUESTION 99**

Exhibit: view two reports. Assume permanent variable labels have been assigned.

Output we are getting		
Region	Subsidiary	Total Sales
Asia	Bangkok	\$1,996
	Bangkok	\$3,033
	Bangkok	\$3,230
	Bangkok	\$3,019
	Bangkok	\$5,389
	Seoul	\$60,712
	Seoul	\$11,754
	Seoul	\$116,333
	Seoul	\$4,978
	Seoul	\$149,013
	Seoul	\$937
	Seoul	\$20,448
	Seoul	\$78,234
	Tokyo	\$1,155
-----		
Output we want!		
Region	Subsidiary	Total Sales
Asia	Bangkok	\$16,667
	Seoul	\$442,409
	Tokyo	\$1,155

The following SAS program is submitted and produces the first report:

```
proc report data = sasuser.shoes nowd;  
column region subsidiary sales;  
define subsidiary / display;  
define region / group;  
define sales / sum;  
run;
```

Which one of the following corrects the program above to produce the second report shown in the exhibit?

- A. Define the variable SUBSIDIARY with a SUM usage.
- B. Define the variable SUBSIDIARY with a GROUP usage.
- C. Define the variable SUBSIDIARY with an ORDER usage.
- D. Define the variable SUBSIDIARY with an ACROSS usage.

Answer: B

---

#### QUESTION 100

Which one of the following SAS system options prevents the page number from appearing on a report?

- A. NONUM
- B. NOPAGE
- C. NONUMBER
- D. NOPAGENUM

Answer: C

---

#### QUESTION 101

The following SAS program is submitted:

```
proc freq data=sales;
```

<insert TABLES statement here>

run;

Exhibit: output from the FREQ procedure.

The FREQ Procedure				
Table of Region by Product				
Region	Product			
Frequency Percent Row Pct Col Pct	Boot	Sandal	Slipper	Total
Africa	8 12.70 33.33 38.10	8 12.70 33.33 38.10	8 12.70 33.33 38.10	24 38.10
Asia	2 3.17 33.33 9.52	2 3.17 33.33 9.52	2 3.17 33.33 9.52	6 9.52
Canada	5 7.94 33.33 23.81	5 7.94 33.33 23.81	5 7.94 33.33 23.81	15 23.81
Pacific	6 9.52 33.33 28.57	6 9.52 33.33 28.57	6 9.52 33.33 28.57	18 28.57
Total	21 33.33	21 33.33	21 33.33	63 100.00

Which one of the following statements completes the program and produces the output?

- A. tables region product;
- B. tables region\* product;
- C. tables product region;
- D. tables product region\*;

Answer: B

---

### QUESTION 102

Which one of the following SAS system options displays the time on a report?

- A. TIME
- B. DATE
- C. TODAY
- D. DATETIME

Answer: B

---

### QUESTION 103

The following SAS program is submitted:

options pageno = 1;

```
proc prient data=sasuser. houses;  
run;  
proc means data=sasuser .shoes;  
run;
```

The report created by the PRINT procedure step generates 5 pages of output.  
What is the page number on the first page of the report generated by the MEANS procedure step?

- A. 1
- B. 2
- C. 5
- D. 6

Answer: D

---

**QUESTION 104**

The following SAS program is submitted:

```
proc format;  
value score 1 - 50 = 'Fail'  
51-100='Pass';  
run;  
proc report data=work .courses nowd;  
column exam;  
define exam / display format=score.;  
run;
```

The variable EXAM has a value of 50.5.

How will the EXAM variable value be displayed in the REPORT procedure output?

- A. Fail
- B. Pass
- C. 50.5
- D. . (missing numeric value)

Answer: C

---

**QUESTION 105**

The following SAS program is submitted:

```
<insert ODS statement here>  
proc means data= sasuser .shoes;  
where product in ('sandal' , 'Slipper' , 'Boot');  
run;
```

Which one of the following ODS statements completes the program and sends the report to an HTML file?

- A. ods html = 'sales .html';
- B. ods file='sales .html';
- C. ods file html='sales .html';



D. ods html file='sales. html';

Answer: D

---

**QUESTION 106**

Which one of the following ODS statement options terminates output being written to an HTML file?

- A. END
- B. QUIT
- C. STOP
- D. CLOSE

Answer: D

---

**QUESTION 107**

The following SAS program is submitted:

```
libnamesasdata 'SAS-data-library';
```

```
data set;
```

```
set sasdata .chemists;
```

```
if jobcode = 'chem3'
```

```
then description = 'Senior Chemist';
```

```
else description = 'Unknown';
```

```
run;
```

A value for the variable JOBCODE is listed below:

JOBCODE

CHEM3

Which one of the following values does the variable DESCRIPTION contain?

- A. chem3
- B. Unknown
- C. Senior Chemist
- D. ' ' (missing character value)

Answer: B

---

**QUESTION 108**

The following SAS program is submitted:

```
libnamesasdata 'SAS-data-library';
```

```
data set;
```

```
set sasdata .chemists;
```

```
if jobcode = 'Chem2'
```

```
then description = 'Senior Chemist';
```

```
else description = 'Unknown';
```

```
run;
```

A value for the variable JOBCODE is listed below:

JOBCODE

chem2

Which one of the following values does the variable DESCRIPTION contain?

- A. Chem2
- B. Unknown
- C. Senior Chemist
- D. ' ' (missing character value)

Answer: B

---

**QUESTION 109**

The contents of the raw data file EMPLOYEE are listed below:

----|----10---|----20---|----30

Ruth 39 11

Jose 32 22

Sue 30 33

John 40 44

The following SAS program is submitted:

```
data test;
```

```
in file 'employee';
```

```
input employee_ name $ 1-4;
```

```
if employee_ name = 'Sue' then input age 7-8;
```

```
else input idnum 10-11;
```

```
run;
```

Which one of the following values does the variable AGE contain when the name of the employee is "Sue"?

- A. 30
- B. 33
- C. 40
- D. . (missing numeric value)

Answer: C

---

**QUESTION 110**

The contents of the raw data file EMPLOYEE are listed below:

----|----10---|----20---|----30

Ruth 39 11

Jose 32 22

Sue 30 33

John 40 44

The following SAS program is submitted:

```
data test;
```

```
in file 'employee';
```

```
input employee_ name $ 1-4;
```

```
if employee_ name = 'Ruthh' then input idnum 10-11;  
else input age 7-8;  
run
```

Which one of the following values does the variable IDNUM contain when the name of the employee is "Ruth"?

- A. 11
- B. 22
- C. 32
- D. . (missing numeric value)

Answer: B

---

**QUESTION 111**

A SAS PRINT procedure output of the WORK.LEVELS data set is listed below:

Obsname level

- 1 Frank 1
- 2 Joan 2
- 3 Sui 2
- 4 Jose 3
- 5 Burt 4
- 6 Kelly .
- 7 Juan 1

The following SAS program is submitted:

```
data work . expertise;  
set work. levels;  
if level = . then  
expertise = 'Unknown';  
else if level = 1 then  
expertise = 'Low';  
else if level = 2 or 3 then  
expertise = 'Medium';  
else  
expertise = 'High';  
run;
```

Which of the following values does the variable EXPERTISE contain?

- A. Low, Medium, and High only
- B. Low, Medium, and Unknown only
- C. Low, Medium, High, and Unknown only
- D. Low, Medium, High, Unknown, and ' ' (missing character value)

Answer: B

---

**QUESTION 112**

The contents of the raw data file SIZE are listed below:

----|----10---|----20---|----30

72 95

The following SAS program is submitted:

```
data test;
```

```
in file 'size';
```

```
input@ 1 height 2.@ 4 weight 2;
```

```
run;
```

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

- A. 2
- B. 72
- C. 95
- D. . (missing numeric value)

Answer: A

---

**QUESTION 113**

A SAS program is submitted and the following SAS log is produced:

```
2 data gt100;
```

```
3 set ia.airplanes
```

```
4 if mpg gt 100 then output;
```

```
22 202
```

```
ERROR: File WORK.IF.DATA does not exist.
```

```
ERROR: File WORK.MPG.DATA does not exist.
```

```
ERROR: File WORK.GT.DATA does not exist.
```

```
ERROR: File WORK.THEN.DATA does not exist.
```

```
ERROR: File WORK.OUTPUT.DATA does not exist.
```

```
ERROR 22-322: Syntax error, expecting one of the following: a name,  
a quoted string, (,;,END,KEY,KEYS,NOBS,OPEN,POINT,_DATA_,_LAST_,  
_NULL_.
```

```
ERROR 202-322: The option or parameter is not recognized and will be ignored.
```

```
5 run;
```

The IA libref was previously assigned in this SAS session.

Which one of the following corrects the errors in the LOG?

- A. Delete the word THEN on the IF statement.
- B. Add a semicolon at the end of the SET statement.
- C. Place quotes around the value on the IF statement.
- D. Add an END statement to conclude the IF statement.

Answer: B

---

**QUESTION 114**

The contents of the raw data file CALENDAR are listed below:

----|----10---|----20---|----30

01012000

The following SAS program is submitted:

```
data test;  
infile,calendar';  
input@1 data mmddyy10.;  
if date='01012000'd then event='january 1st';  
run;
```

Which one of the following is the value of the EVENT variable?

- A. 01012000
- B. January 1st
- C. . (missing numeric value)
- D. The value can not be determined as the program fails to execute due to errors.

Answer: D

---

**QUESTION 115**

The following SAS program is submitted:

```
data work.january;  
set work.allmonths (keep=product month num_sold cost);  
if month='jan'then output work.january;  
sales=cost*num_sold;  
keep=product sales;  
run;
```

Which variables does the WORK.JANUARY data set contain?

- A. PRODUCT and SALES only
- B. PRODUCT, MONTH, NUM\_SOLD and COST only
- C. PRODUCT, SALES, MONTH, NUM\_SOLD and COST only
- D. An incomplete output data set is created due to syntax errors.

Answer: D

---

**QUESTION 116**

The following SAS program is submitted:

```
data work.totalsales;  
set work.monthlysales(keep=year product sales);  
retrain montnsales {12};  
array montnsales {12};  
do i=1 to 12;  
montnsales{i}=sales;  
end;  
ent+1;  
montnsales{ent}=sales;  
run;
```

The data set named WORK.MONTHLYSALES has one observation per month for

each of five years for a total of 60 observations.

Which one of the following is the result of the above program?

- A. The program fails execution due to data errors.
- B. The program fails execution due to syntax errors.
- C. The program runs with warnings and creates the WORK.TOTALSALES data set with 60 observations.
- D. The program runs without errors or warnings and creates the WORK.TOTALSALES data set with 60 observations.

Answer: B

---

**QUESTION 117**

The following SAS program is submitted:

```
data work.totalsales (keep=monthsales{12});  
set work.monthlysales (keep=year product sales);  
srray monthsales {12};  
doi=1 to 12;  
monthsales{i}=sales;  
end;  
run;
```

The data set named WORK.MONTHLYSALES has one observation per month for each of five years for a total of 60 observations.

Which one of the following is the result of the above program?

- A. The program fails execution due to data errors.
- B. The program fails execution due to syntax errors.
- C. The program executes with warnings and creates the WORK.TOTALSALES data set.
- D. The program executes without errors or warnings and creates the WORK.TOTALSALES data set.

Answer: B

---

**QUESTION 118**

Which one of the following is true when SAS encounters a data error in a DATA step?

- A. The DATA step stops executing at the point of the error, and no SAS data set is created.
- B. A note is written to the SAS log explaining the error, and the DATA step continues to execute.
- C. A note appears in the SAS log that the incorrect data record was saved to a separate SAS file for further examination.
- D. The DATA step stops executing at the point of the error, and the resulting DATA set contains observations up to that point.

Answer: B

---

**QUESTION 119**

Which one of the following statements is true regarding the SAS automatic \_ERROR\_ variable?

- A. The \_ERROR\_ variable contains the values 'ON' or 'OFF'.
- B. The \_ERROR\_ variable contains the values 'TRUE' or 'FALSE'.
- C. The \_ERROR\_ variable is automatically stored in the resulting SAS data set.
- D. The \_ERROR\_ variable can be used in expressions or calculations in the DATA step.

Answer: D

---

**QUESTION 120**

The contents of the raw data file AMOUNT are listed below:

----|----10---|----20---|----30

\$1,234

The following SAS program is submitted:

```
data test;  
infile'amount';  
input @1 salary 6.;  
run;
```

Which one of the following is the value of the SALARY variable?

- A. 1234
- B. 1,234
- C. \$1,234
- D. . (missing numeric value)

Answer: D

---

**QUESTION 121**

The contents of the raw data file NAMENUM are listed below:

----|----10---|----20---|----30

Joe xx

The following SAS program is submitted:

```
data test;  
infile'namenum';  
input name $ number;  
run;
```

Which one of the following is the value of the NUMBER variable?

- A. xx
- B. Joe
- C. . (missing numeric value)

D. The value can not be determined as the program fails to execute due to errors.

Answer: C

---

**QUESTION 122**

The contents of the raw data file AMOUNT are listed below:

----|----10---|----20---|----30

\$1,234

The following SAS program is submitted:

```
data test;
```

```
infile'amount';
```

```
input @1 salary 6.;
```

```
if_error_then description='problems';
```

```
els desription='No Problems';
```

```
run;
```

Which one of the following is the value of the DESCRIPTION variable?

A. Problems

B. No Problems

C. '' (missing character value)

D. The value can not be determined as the program fails to execute due to errors.

Answer: A

---

**QUESTION 123**

The following SAS program is submitted:

```
data test;
```

```
set sasuser.employees;
```

```
if 2 le years_service le 10 then
```

```
amount=1000;
```

```
else if years_service gt 10 then
```

```
amount=2000;
```

```
else
```

```
amount=0;
```

```
amount_per_year=years_serice/amount;
```

```
run;
```

Which one of the following values does the variable AMOUNT\_PER\_YEAR contain if an employee has been with the company for one year?

A. 0

B. 1000

C. 2000

D. . (missing numeric value)

Answer: D