# SAS Institute

# EXAM A00-211

**SAS Base Programming for SAS® 9**

Total Questions: 204

## Question: 1

The SAS data set SASUSER.HOUSES contains a variable PRICE which has been assigned a permanent label of "Asking Price". Which SAS program 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; price = "Sale Price"; run;

**Answer: C**

## Question: 2

The following GAS program is submitted:
data work.empsalary;
set work.people (in = inemp)
work.money (in = insal);
if insal and inemp;
run;
The SAS data set WORKPEOPLE has 5 observations, and the data set WORKMONEY has 7 observations. How many observations will the data set WORK.EMPSALARY contain?

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

**Answer: A**

## Question: 3

The following SAS program is submitted:
data work.accounting;
set work.dept1 work.dept2;
jobcode = 'FA1';

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length jobcode $ 8;

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. What is the length of the variable JOBCODE in the output data set?

A. 3
B. 5
C. 7
D. 8

**Answer: B**

## Question: 4

Given the SAS data set SASDAT
A.TWO:
SASDATA.TWO
X Y
--
5 2
3 1
5 6
The following SAS program is submitted:
data sasuser.one two sasdata.three;
set sasdata two;
if x = 5 then output sasuser.one;
else output sasdata two;
run;
What is the result?

A. data set SASUSER.ONE has 5 observations
data set SASUSER.TWO has 5 observations
data set WORK.OTHER has 3 observations
B. data set SASUSER.ONE has 2 observations
data set SASUSER.TWO has 2 observations
data set WORK.OTHER has 1 observations
C. data set SASUSER.ONE has 2 observations
data set SASUSER.TWO has 2 observations
data set WORK.OTHER has 5 observations
D. No data sets are output.
The DATA step fails execution due to syntax errors.

**Answer: A**

## Question: 5

The following SAS program is submitted:
footnote 1 'Sales Report for Last Month';
footnote2 'Selected Products Only';
footnote3 'All Regions';
footnote4 'All Figures in Thousands of Dollars';
proc print data = sasuser.shoes;
footnote2 'All Products';
run;
Which footnote(s) is/are 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: 6

Given the raw data record DEPT:
----|----10---|----20---|----30
Printing 750
The following SAS program is submitted:
data bonus;
infile 'dept';
inputdept$ 1-11 number 13- 15;
<insert statement here>
run;
Which SAS statement completes the program and results in a value of 'Printing750' for the DEPARTMENT variable?

A. department = dept II number;
B. department = left(dept) II number;
C. department = trim(dept) number;
D. department = trim(dept) put(number,3.);

**Answer: D**

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## Question: 7

The following SAS program is submitted:
data one;
addressl = '214 London Way';
run;
data one;
set one;
address = tranwrd(address1, 'Way', 'Drive'); run;
What are the length and value of the variable ADDRESS?

A. Length is 14; value is '214 London Dri'.
B. Length is 14; value is '214 London Way'.
C. Length is 16; value is '214 London Drive'.
D. Length is 200; value is '214 London Drive'.

**Answer: D**

## Question: 8

The following SAS program is submitted:
data work.sets;
do until (prod gt 6);
prod + 1;
end;
run;
What is the value of the variable PROD in the output data set?

A. 6
B. 7
C. 8
D. (missing numeric)

**Answer: B**

## Question: 9

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

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WORK.EMPLOYEE WORK.SALARY
fname age name salary
Bruce 30 Bruce 25000
Dan 40 Bruce 35000
Dan 25000
The following SAS program is submitted:
data work.empdata;
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: 10

Which program displays a listing of all data sets in the SASUSER library?

A. proc contents lib = sasuser.all; run;
B. proc contents data = sasuser.all; run;
C. proc contents lib = sasuser._all_; run;
D. proc contents data = sasuser._all_; run;

**Answer: D**

## Question: 11

The following SAS program is submitted:
proc sort data = work.employee;
by descending fname;
proc sort data = work.salary;

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by descending fname;
data work.empdata;
merge work.employee
work.salary;
by fname;
run;
Why does the program rail to execute?

A. The SORT procedures contain invalid syntax.
B. The merged data sets are not permanent SAS data sets.
C. The RUN statement was omitted alter each or the SORT procedures.
D. The data sets were not merged in the order by which they were sorted.

**Answer: D**

## Question: 12

The following SAS program Is submittad:
data work.sales;
do year = 1 to 5;
do month=1 to 12;
x+1;
output
end;
end;
run;
How many observations are written the WORK SALES data set?

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

**Answer: D**

## Question: 13

Given the following raw data record:
----I----10---I----20---I----30
son Travis,
The following output is desired:

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Obs relation firstname
1 son Travis
Which SAS program correctly reads in the raw data?

A. data family ( dIm = ','); infile 'tile specification'; input relation $ firstname $; run;
B. options dIm = ','; data family; infile 'file specification'; input relation $ firstname $; run;
C. data family; infile 'file specification' dIm = ','; input relation $ firstname $; run;
D. data family; infile 'file specification'; input relation $ firstname $ / dim = ','; run;

**Answer: C**

# Question: 14

Given the SAS data set AGES:
AGES
AGE
---------
The variable AGE contains character values. The following SAS program is submitted:
data subset;
set ages;
where age> 12;
run;
How many observations are written out to the data set SUBSET?

A. 0
B. 1
C. 2
D. 3

**Answer: A**

# Question: 15

Given the SAS data set PRICES:
PRICES
prodid price
K12S 5.10 producttype
NETWORK sales
15 returns
2
B132S 2.34 HARDWARE 300 10

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R18KY21.29 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:
data hware inter soft;
set 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. 3
D. 4

## Question: 16

The following SAS program is submitted:
data work.accounting;
set work.department;
length jobcode $ 12;
jobcode='FAl';
run;
The WORK.DEPARTMENT data set contains a character variable named JOBCODE with a
length of 5.
What is the result?

A. The length of the variable JOBCODE is 3.
B. The length of the variable JOBCODE is 5.
C. The length of the variable JOSBODE is 12.
D. The program fails to execute due to errors.

## Question: 17

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Which ODS statement option terminates output being written to an HTML rile?

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

**Answer: D**

## Question: 18

The SAS data set PETS is sorted by the variables TYPE and BREED.
The following SAS program is submitted:
proc print data = pets;
var type breed;
sum number;
run;
What is the result?

A. The SUM statement produces only a grand total of NUMBER.
B. The SUM statement produces only subtotals of NUMBER for each value of TYPE.
C. The SUM statement produces both a grand total of NUMBER and subtotals of NUMBER for
each value of TYPE.
D. Nothing is produced by the SUM statement; the program fails to execute.

**Answer: A**

## Question: 19

The following SAS program is submitted:
data work.passengers;
if OrigPassengers = then
OrigPassengers = 100;
TransPassengers = 100;


OrigPassengers =
TotalPassengers = sum (OrigPassengers, TransPassengers) +0;
run;
What is the value of the TOTALPASSENGERS variable in the output data set?

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A. 0
B. 100
C. 200
D. (missing numeric value)

## Question: 20

Given the SAS data set PRICES:
PRICES
Prodid price producttype sales returns
K125 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:
data hware inter cheap;
set prices(keep = producttype price);
if producttype = 'HARDWARE' then output hware; else if producttype = 'NETWORK' then output
inter; if price le 5.00;
run;
How many observations does the HWARE data set contain?

A. 0
B. 2
C. 3
D. 4

## Question: 21

The following SAS program is submitted:
data work.sales;
do year = 1 to 5;
do month = 1 to 12;

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x+ 1;
end;
end;
run;
How many observations are written to the WORK.SALES data set?

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

## Question: 22

The following SAS program is submitted:
data work.totalsales (keep = monthsales{12});
set work.monthlysales (keep = year product sales);
array monthsales{12};
do i = 1 to 12; monthsales{i} = sales;
end;
run;
The program fails execution due to syntax errors. What is the cause of the syntax error?

A. The variable MONTHSALES does not exist.
B. An array cannot be referenced on a KEEP data set option.
C. The KEEP= data set option should be (KEEP = MONTHSALES).
D. The KEEP= data set option should be the statement KEEP MONTHSALES{12}.

## Question: 23

Given the SAS data set EMPLOYEES:
EMPLOYEES
NAME SALARY
-------- ------------
Innis 60000
Jolli 50000
Ellis 55000
Liu 45000

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The following SAS program is submitted:
proc print data = employees; where name like '_i%';
run;
What is contained in the output?

A. Liu only
B. Innis and Ellis only
C. Innis, Ellis, and Liu only
D. Innis, Jolli, Ellis, and Liu

**Answer: A**

## Question: 24

Given the SAS data set ONE:
ONE
Obs Dte
----- --------
1 09JAN2005
2 12JAN2005
The following SAS program is submitted:
data two;
set one;
day = <insert expression here>;
format dte date9.;
run;
The data set TWO is created:
TWO
Obs Dte Day
1 09JAN2005 1
12 JAN2005 4
Which expression successfully completed the program and created the variable DAY?

A. day(dte)
B. weekday(dte)
C. dayofweek(dte)
D. datdif(dte,'01jan2005'd,'act/act')

**Answer: B**

## Question: 25

Read the table:
Given the SAS data set SASUSER.HOUSES:

| Obs | style | sqfeet | bedrooms | baths | street | price |
|-----|-------|--------|----------|-------|--------|-------|
| 1 | RANCH | 1250 | 2 | 1.0 | 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 |

Obs style bedrooms baths price sqteet street
1 CONDO 2 1.5 80050 1200 MAIN
2 CONDO 3 2.5 79350 1300 ELM
3 CONDO 4 2.5 127150 1400 OAK
4 CONDO 2 2.0 110700 1100 FIFTH
5 TWOSTORY 4 3.0 107250 2100 SECOND
6 TWOSTORY 2 1.0 55650 1600 WEST
7 TWOSTORY 2 1.0 69250 1450 NORTH
6 TWOSTORY 4 2.5 102950 2000 SOUTH
The following SAS program is submitted:
proc report data = sasuser.houses nowd headline;
column style price;
where price It 100000;
<insert DEFINE statement here>
define price / mean width = 9 format = dollar12.;
title;
run;
The following output is desired:
style price
------- ------
CONDO $79,700
TWOSTORY $62550
Which DEFINE statement completes the program and produces the desired output?

A. define style / width = 9,
B. define style / orderwidth = 9;
C. define style / group width = 9;
D. define style / display width = 9;

**Answer: C**

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## Question: 26

Given the SAS data set WORKAWARDS:
WORK.AWARDS
FNAME POINTS MONTH
---------- ------------ -----------
Amy 2 4
Amy 1 7
Gerard 3 3
Wang 3 3
Wang 1 12
Wang 1 8
The following SAS program is submitted:
proc sort data = work.awards;
by descending fname points;
run;
How are the observations sorted?

A. ENAME POINTS MONTH
Wang 3 3
Wang 1 12
Wang 1 8
Gerard 3 3
Amy 2 4
Amy 1 7
B. ENAME POINTS MONTH
Amy 2 4
Amy 1 7
Gerard 3 3
Wang 3 3
Wang 1 8
Wang 1 12
C. ENAME POINTS MONTH Wang 3 3
Wang 1 8
Wang 1 12
Gerard 3 3
Amy 2 4
Amy 1 7
D. ENAME POINTS MONTH
Wang 1 12
Wang 1 8
Wang 3 3
Gerard 3 3
Amy 1 7
Amy 2 4

**Answer: D**

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## Question: 27

The following SAS program is submitted:
libname temp 'SAS data library';
data work.new;
set temp.jobs;
format newdate mmddw10.;
mdate = month(newdate);
ddate = weekday(newdate);
run;
proc print data = work.new; run;
The variable NEWDATE contains the SAS date value for April 15. 2005. What output is
produced if April 15, 2005 falls on a Friday?

A. Obsnewdate mdate ddate
104/15/2005 APR 6
B. Obs newdate mdate ddate
104/15/2005 4 6
C. Obs newdate mdate ddate
104/15/2005 APR 7
D. Obs newdate mdate ddate
104/15/2005 4 7

**Answer: B**

## Question: 28

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.

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## Question: 29

The following SAS program is submitted:
proc contents data = sashelp.class varnum; quit;
What does the VARNUM option print?

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

## Question: 30

The following SAS program is submitted:
data test;
set chemists;
itjobcode = 'Chem2'
then description = 'Senior Chemist';
else description = 'Unknown';
run;
The value for the variable JOBCODE is:
JOBCODE
-------------
chem2
What is the value of the variable DESCRIPTION?

A. chem2
B. Unknown
C. Senior Chemist
D. ' ' (missing character value)

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## Question: 31

Given the AIRPLANES data set
AIRPLANES
TYPE MPG
-------- ------
F-18 105
C-130 25
Harrier 75
A-6 110
The following SAS program is submitted:
data gt100;
set airplanes(keep = type mpg load);
load = mpg * 150;
run;
The program fails to execute due to syntax errors.
What is the cause of the syntax error?

A. MPG is not a numeric variable.
B. LOAD is not a variable in the data set GT100.
C. LOAD is not variable in the data set AIRPLANES.
D. LOAD must be defined prior to the SET statement.

**Answer: C**

## Question: 32

Given the raw data file EMPLOYEE:
----I----1 0---I----20---I----30
Ruth 39 11
Jose 32 22
Sue 30 33
John 40 44
The following SAS program is submitted:
data test;
infile 'employee';
input employee_name $ 1-4;
if employee_name = 'Ruth' then input idnum 10-11;
else input age 7-8;
run;
What value does the variable IDNUM contain when the name of the employee is "Ruth"?

A. 11

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B. 22

C. 33

D. (missing numeric value)

**Answer: B**

## Question: 33

The following SAS program is submitted:

data temp.x;

set sasuser.y;

run;

What must be submitted prior to this SAS program for the program to execute successfully?

A. A LIBNAME statement for the libref TEMP only must be submitted.

B. A LIBNAME statement for the libref SASUSER only must be submitted.

C. LIBNAME statements for the librefs TEMP and SASUSER must be submitted.

D. No LIBNAME statement needs to be submitted.

**Answer: A**

## Question: 34

The data set RALESTATE has the variable LOCALFEE with a format or 9. and a variable
COUNTRYFEE with a format or 7.;

The following SAS program is submitted:

data history;

format local fee country fee percent6.;

set realestate;

local fee = local fee / 100;

country fee = country fee / 100;

run;

What are the formats of the variables LOCALFEE and COUNTRYFEE in the output dataset?

A. LOCALFEE has format of 9. and COUNTRYFEE has a format of 7.

B. LOCALFEE has format of 9. and COUNTRYFEE has a format of percent6.

C. LOCALFEE has format of percent6. and COUNTRYFEE has a format of percent6.

D. The data step fails execution; there is no format for LOCALFEE

**Answer: C**

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## Question: 35

The following SAS program is submitted:
proc freq data = class;
tables gender * age / <insert option here>;
run;
The following report is created:
The FREQ Procedure
Table of gender by age
Row Column
Gender age Frequency Percent Percent Percent
F 11 1 10.00 20.00 50.00
12 2 20.00 40.00 40.00
13 2 20.00 40.00 66.67
Total 5 50.00 100.00
M 11 1 10.00 20.00 50.00
12 3 30.00 60.00 60,00
13 1 10.00 20.00 33.33
Total 5 50.00 100.00
Total 11 2 20.00 100.00
12 5 50.00 100.00
13 3 30.00 100.00
Total 10 100.00
Which option correctly completes the program and creates the report?

A. LIST
B. NOCOLS
C. CROSSLIST
D. NOCROSSTAB

**Answer: C**

## Question: 36

The value 110700 is stored in a numeric variable named SALARY.
Which FORMAT statement displays the value as $110,700.00 in a report?

A. format salary comma11.2;
B. format salary dollar8.2;
C. format salary dollar11.2;
D. format salary comma8.2 dollar8.2;

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