

A00-211 – SAS BASE PROGRAMMER CERTIFICATION QUESTIONS AND STUDY GUIDE

SAS Certified Base Programmer for SAS 9 (A00-211)



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SAS Base Programmer Certification Details

Exam Name	SAS Certified Base Programmer for SAS 9
Exam Code	A00-211
Duration	110 Minutes (60 to 65 multiple-choice and short-answer questions)
Passing Percentage	70%
Negative Marking	NO (There will not be any penalty for wrong answer)
Partial Credit	NO (There will not be any partial credit awarded for partially correct answer)
Reference Book	SAS Certification Prep Guide: Base Programming for SAS 9, Third Edition
Schedule Your exam	Pearson VUE
Sample Questions	SAS Base Certification Sample Questions
Recommended Practice tool	SAS Base Certification Premium Practice Exam

SAS Base Programmer Certification Syllabus for A00-211 (Study Aid)

Accessing Data

- Use FORMATTED and LIST input to read raw data files.
- Use INFILE statement options to control processing when reading raw data files.
- Use various components of an INPUT statement to process raw data files including column and line pointer controls, and trailing @ controls.
- Combine SAS data sets.
- Access an Excel workbook.

Creating Data Structures

- Create temporary and permanent SAS data sets.
- Create and manipulate SAS date values.
- Export data to create standard and comma-delimited raw data files.
- Control which observations and variables in a SAS data set are processed and output.

Managing Data

- Investigate SAS data libraries using base SAS utility procedures.
- Sort observations in a SAS data set.
- Conditionally execute SAS statements.
- Use assignment statements in the DATA step.
- Modify variable attributes using options and statements in the DATA step.
- Accumulate sub-totals and totals using DATA step statements.
- Use SAS functions to manipulate character data, numeric data, and SAS date values.
- Use SAS arithmetic, financial, and probability functions to create or modify numeric values by using the INT and ROUND functions.
- Process data using DO LOOPS.
- Process data using one-dimensional SAS arrays.
- Validate and clean data.

Generating Reports

- Generate list reports using the PRINT procedure.
- Generate summary reports and frequency tables using base SAS procedures.
- Enhance reports through the use of user-defined formats, titles, footnotes and SAS System reporting.
- Generate reports using ODS statements.

Handling Errors

- Identify and resolve programming logic errors.
- Recognize and correct syntax errors.

Examine and resolve data errors.

SAS Base Programmer Exam (A00-211)

Sample Questions

- Below are the 10 sample questions which will help you be familiar with SAS Certified Base Programmer for SAS 9 (A00-211) exam style and Structure.
- These questions are just for demonstration purpose, there are many scenario based question are included in **Premium SAS Base Programmer Practice Exam**
- Access to all 440+ questions is available only through premium practice exam available to members at www.analyticsexam.com

QUESTION 1:

Given the raw data file FURNITURE:

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

```
chair,,table
```

```
chair,couch,table
```

The following SAS program is submitted:

```
data stock;
```

```
infile 'furniture' dsd;
```

```
input item1 $ item2 $ item3 $;
```

```
run;
```

What is the value of the variable ITEM2 in the first observation of the output data set?

Options:

A. , (comma)

B. ,(missing numeric value)

C. "±(missing character value

D. table

QUESTION 2:

Given the text file COLORS.TXT:

```
----+----1----+----2----+----
```

```
RED ORANGE YELLOW GREEN
```

```
BLUE INDIGO PURPLE VIOLET
```

```
CYAN WHITE FUCSIA BLACK
```

```
GRAY BROWN PINK MAGENTA
```

The following SAS program is submitted:

```
data WORK.COLORS;
```

```
infile 'COLORS.TXT';
```

```
input @1 Var1 $ @8 Var2 $ @;
```

```
input @1 Var3 $ @8 Var4 $ @;
```

```
run;
```

What will the data set WORK.COLORS contain?**Options:**

- A. Var1 Var2 Var3 Var4

 RED ORANGE BLUE INDIGO
 CYAN WHITE GRAY BROWN
- B. Var1 Var2 Var3 Var4

 RED ORANGE YELLOW GREEN
 BLUE INDIGO PURPLE VIOLET
- C. Var1 Var2 Var3 Var4

 RED ORANGE YELLOW GREEN
 BLUE INDIGO PURPLE VIOLET
 CYAN WHITE FUCSIA BLACK
 GRAY BROWN PINK MAGENTA
- D. Var1 Var2 Var3 Var4

 RED ORANGE RED ORANGE
 BLUE INDIGO BLUE INDIGO
 CYAN WHITE CYAN WHITE
 GRAY BROWN GRAY BROWN

QUESTION 3:**Provide a line of missing code.**

Given the following data set WORK.SALES:

SalesID	SalesJan	FebSales	MarchAmt
-----	-----	-----	-----
W6790	50	400	350
W7693	25	100	125
W1387	.	300	250

The following SAS program is submitted:

```
data WORK.QTR1;
    set WORK.SALES;
    array month{3} SalesJan FebSales MarchAmt;
    <insert code here>
run;
```

Which statement should be inserted to produce the following output?

SalesID	SalesJan	FebSales	MarchAmt	Qtr1
-----	-----	-----	-----	----
W6790	50	400	350	800
W7693	25	100	125	250
W1387	.	300	250	550

Options:

- A. Qtr1 = sum(of month{*});
- B. Qtr1 = sum(of month{_ALL_});
- C. Qtr1 = sum(of month{3});
- D. Qtr1 = month{1} + month{2} + month{3};

QUESTION 4:

The following SAS program is submitted:

```
data WORK.LOOP;
X = 0;
do Index = 1 to 5 by 2;
X = Index;
end;
run;
```

Upon completion of execution, what are the values of the variables X and Index in the SAS data set named WORK.LOOP?

Options:

- A. X = 5, Index = 7
- B. X = 5, Index = 5
- C. X = 5, Index = 6
- D. X = 3, Index = 5

QUESTION 5:

Formatted input can be used to read

Options:

- A. standard data in fixed fields
- B. standard free-format data
- C. nonstandard data in fixed fields
- D. both standard and nonstandard data in fixed fields

QUESTION 6:

Given the Contents of the raw data file PRODUCT:

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

The following SAS program is submitted:

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

What is the value of the PRICE variable?

Options:

- A. \$25.31
- B. No value is stored
- C. 25.31
- D. (missing numeric value)

QUESTION 7:

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, 2015. What output is produced if April 15, 2015 falls on a Friday?

Options:

- A.
Obs newdate mdate ddate
104/15/2015 4 7
- B.
Obs newdate mdate ddate
104/15/2015 4 6
- C.
Obs newdate mdate ddate
104/15/2015 APR 7
- D.
Obsnewdate mdate ddate
104/15/2015 APR 6

QUESTION 8:

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;
totalsal + salary;
run;
```

Which IF statement writes the final observation to the final data set?

Options:

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

QUESTION 9:

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?

Options:

- A.

```
proc print data = sasuser.houses;
  where price lt 60000 or where price gt 100000;
run;
```
- B.

```
proc print data = sasuser.houses;
  where price lt 60000;
  where 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 price gt 100000;
run;
```

QUESTION 10:

The following program is submitted.

```
data WORK.TEST;
input Name $ Age;
datalines;
John +35;
run;
```

Which values are stored in the output data set?

Options:

A.
Name Age

John 35

B.
Name Age

(missing value) (missing value)

C.
Name Age

John (missing value)

D.
The DATA step fails execution due to data errors.

Answers:

Question: 1	Answer:C	Question: 2	Answer:D
Question: 3	Answer:A	Question: 4	Answer:A
Question: 5	Answer:D	Question: 6	Answer:D
Question: 7	Answer:B	Question: 8	Answer:C
Question: 9	Answer:D	Question: 10	Answer:A