



SAS Institute

A00-281 EXAM

Clinical Trials Programming Using SAS 9 Accelerated Version

Product: Demo File

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Question: 1

This question will ask you to provide lines of missing code. Given the following SCORE data set:

subject	visitn	visit	score
001	0	Week 0	151
001	1	Week 2	150
001	2	Week 4	.
001	3	Week 6	157
001	4	Week 8	155
001	5	Week 10	.
001	6	Week 12	.
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The following SAS program is submitted:

```
data LOCF ;  
  set score ;  
  by subject visitn ;  
  <insert code here>  
run ;
```

Resulting in this LOCF data set:

subject	visitn	visit	score	LOCF
001	0	Week 0	151	151
001	1	Week 2	150	150
001	2	Week 4	.	150
001	3	Week 6	157	157
001	4	Week 8	155	155
001	5	Week 10	.	155
001	6	Week 12	.	155
001	7	Followup	152	152

Variable LOCF contains the imputed score that would replace the missing SCORE value (based on last observation carried forward method). Which SAS statements complete the program?

- A. LOCF = lag(score) ;
if first.subject then LOCF = . ;
if score ^= . then LOCF = score ;
- B. if first.subject then LOCF = . ;
if score = . then LOCF = lag(score) ;
- C. retain LOCF ;
if first.subject then LOCF = . ;
if score ^= . then LOCF = score ;
- D. retain score ;
if first.subject then LOCF = . ;
if score ^= . then LOCF = score ;

Answer: C

Question: 2

Which function would be used to determine the number of elements in an existing array?

- A. dim ()
- B. n ()
- C. sum ()
- D. count ()

Answer: A

Question: 3

CORRECT TEXT

Given the following work data set containing Treatment-Emergent Adverse Events:

subject	aebodsys	aeecod	aesev
001	NERVOUS SYSTEM DISORDERS	DIZZINESS	1
001	NERVOUS SYSTEM DISORDERS	HEADACHE	2
001	NERVOUS SYSTEM DISORDERS	HEADACHE	3
001	NERVOUS SYSTEM DISORDERS	DIZZINESS	2
001	NERVOUS SYSTEM DISORDERS	LETHARGY	3
002	NERVOUS SYSTEM DISORDERS	DIZZINESS	1
002	NERVOUS SYSTEM DISORDERS	DIZZINESS	2
003	NERVOUS SYSTEM DISORDERS	HEADACHE	3
003	NERVOUS SYSTEM DISORDERS	HEADACHE	3
003	NERVOUS SYSTEM DISORDERS	LETHARGY	2
004	NERVOUS SYSTEM DISORDERS	LETHARGY	2

AESEV (Severity): 1 = Mild, 2 = Moderate, 3 = Severe

And a By Severity table:

	Subject n (%)
NERVOUS SYSTEM DISORDERS	
Mild	n (p)
Moderate	n (p)
Severe	x (p)

In the space below, enter the numeric value of x for "Severe" events under HEADACHE.

Answer: 2

Question: 4

The following SAS program is submitted:

```
data WORK.DATE;
  X="01Jan1960"d;
run;
```

Which value does variable X contain?

- A. the numeric value 0
- B. the character value "01Jan1960"
- C. the date value 01011960
- D. the code contains a syntax error and does not execute.

Answer: A

Question: 5

This question will ask you to provide a line of missing code. Given the dataset RAWBP that is sorted by SUBJECT TEST WEEK:

SUBJECT	WEEK	TEST	VALUE
101	0	DBP	160
101	1	DBP	140
101	2	DBP	130
101	3	DBP	120
101	0	SBP	90
101	1	SBP	87
101	2	SBP	85
101	3	SBP	80

The following SAS program is submitted:

```
data bp;
  set rawbp;
  by subject test week;
  retain baseline;
  if first.test then baseline = .;
  if week = 0 then baseline = value;
  else if week > 0 then do;
    <insert code here>
  end;
run;
```

Which statement must be added to the program to calculate relative change in percent (percent change) from baseline?

- A. `pct_chg = ((baseline - value) / baseline) * 100;`
- B. `pct_chg = ((value - baseline) / baseline) * 100;`
- C. `pct_chg = ((baseline - value) / value) * 100;`
- D. `pct_chg = ((value - baseline) / value) * 100;`

Answer: B

Question: 6

Which statement correctly creates a SAS date variable from a character variable?

- A. `sasdate = input(chardate,date9.);`
- B. `sasdate = 'chardate'd;`
- C. `sasdate = put(chardate,date9.);`
- D. `sasdate = date(chardate,date9.);`

Answer: A

Question: 7

The following SAS program is submitted:

```
data WORK.DIGESTL;
  array Observe(3) $ 8 ('appendicitis', 'diverticulosis', 'gastroenteritis');
run;
```

What is the value of the second variable in the data set WORK.DIGESTL?

- A. diverticulosis
- B. divertic
- C. a missing value
- D. No variables are created.

Answer: B

Question: 8

The following SAS program is submitted:

```
data work.sum;
  num1=1;
  num2=' ';
  num3=num1+num2;
run;
```

What will be the result when the program executes?

- A. num3 assigned a missing value
- B. num3 assigned a value of 0
- C. num3 assigned a value of 1
- D. An error due to mixed variable types in the assignment statement.

Answer: A

Question: 9

Given the SAS data set WORK.VS1:

Subject	_Name_	Visit1	Visit2	Visit3	Visit4	Visit5
101	SBP	160	150	.	130	120

The following SAS program is submitted:

```
data WORK.VS2;
  set WORK.VS1;
  Total=mean(of Visit:);
run;
```

Which value will be assigned to variable TOTAL?

- A. missing
- B. 112
- C. 140
- D. 560

Answer: C

Question: 10

Given the data set HE:

USUBJID	HETERM	HESEQ	HEDUR
201027	HOSPITALIZATION	1	50
201027	HOSPITALIZATION	2	.
201027	HOSPITALIZATION	3	10
201027	HOSPITALIZATION	4	5
211046	HOSPITALIZATION	1	9
211046	HOSPITALIZATION	2	.

The following SAS Program is submitted:

```
data hosp;
  retain hospdurd;
  set HE;
  by usubjid;
  if first.usubjid then hospdurd=0;
  hospdurd = hospdurd + hedur;
  if last.usubjid;
run;
```

What will the values be of variable HOSPDURD for the two subjects?

- A. 5, missing
- B. missing, missing
- C. 65, 9
- D. 50, 9

Answer: B

Question: 11

Given the VITALS data set:

PATID	VISIT	PULSE	SYSBP	DIABP
141	Week 1	60	118	72
141	Week 2	60	112	72
141	Week 3	66	108	72
141	Week 4	76	116	76
218	Week 1	87	130	73
218	Week 2	75	118	69
218	Week 3	91	127	79
218	Week 4	71	119	76

Which program was used to transpose the data set into the following structure?

PATID	VISIT	_NAME_	_LABEL_	COL1
141	Week 1	PULSE	Pulse	60
141	Week 1	SYSBP	Systolic BP	118
141	Week 1	DIABP	Diastolic BP	72
141	Week 2	PULSE	Pulse	60
141	Week 2	SYSBP	Systolic BP	112
141	Week 2	DIABP	Diastolic BP	72
141	Week 3	PULSE	Pulse	66
141	Week 3	SYSBP	Systolic BP	108
141	Week 3	DIABP	Diastolic BP	72
141	Week 4	PULSE	Pulse	76

- A. proc transpose
data=vitals ; var pulse
sysbp diabp ;
run ;
- B. proc transpose
data=vitals ; by patid visit
;
run ;
- C. proc transpose
data=vitals ; var patid
visit ;
run ;
- D. proc transpose
data=vitals ; id patid visit ;
run ;

Answer: B

Question: 12

You have acquired an existing program from a coworker which uses a macro. It is not immediately clear to you what this macro is doing. Which OPTION can be used to put the SAS statements generated by the macro execution into the LOG?

- A. MPRINT
B. SYMBOLGEN
C. MLOGIC
D. MRECALL

Answer: A

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