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Exam : **A00-231**

Title : SAS 9.4 Base Programming -- Performance-based exam

Version : DEMO

1.SIMULATION
Scenario:
This project will use data setcert.input04. At any time, you may save your program asprogram04incert\programs. Write a SAS program that will create the data setresults.output04.
In this program, complete the following mathematical actions, in the following order:
Round VAR1 and VAR2 to the nearest integer values.
Multiply the rounded VAR1b y the rounded VAR2 and assign the new value to VAR3.
Add VAR12 through VAR19 (8 variables) together, ignoring missing values. Assign the sum to VAR20.
For observation 16, what is the value ofVAR3? Enter your numeric answer in the space below:
Answer: 80136
Explanation:
SAS code that could be used to solve this project:

```
data results.output04;
set cert.input04;
var3=round(var1,1)*round(var2,1);
var20=sum(of var12-var19);
run;
proc print data=results.output04 (obs=16 firstobs=16);
var var3 var20;
run;
```

The 'obs' option controls the last observation SAS processes. If you set obs=16, SAS would read and process only up to the 16th observation in the data set.
The 'firstobs' option controls the starting observation. If you set firstobs=16, SAS would start reading and processing from the 16th observation.

2.SIMULATION
Scenario:
This project will use data setcert.input04. At any time, you may save your program asprogram04incert\programs. Write a SAS program that will create the data setresults.output04.
In this program, complete the following mathematical actions, in the following order:
Round VAR1 and VAR2 to the nearest integer values.
Multiply the rounded VAR1b y the rounded VAR2 and assign the new value to VAR3.
Add VAR12 through VAR19 (8 variables) together, ignoring missing values. Assign the sum to VAR20.
For observation 16, what is the value ofVAR20? Enter your numeric answer in the space below. Round your answer to the nearest whole number. Save your program asprogram04.sasincert\programs before continuing with the next project
Answer: 3175
Explanation:
SAS code that could be used to solve this project:

```
data results.output04;
set cert.input04;
var3=round(var1,1)*round(var2,1);
var20=sum(of var12-var19);
run;
```

proc print data=results.output04 (obs=16 firstobs=16);
var var3 var20;
run;
If you got this question wrong because you didn't round to the nearest whole number, please know that the actual exam will restrict you to entering only a whole number to prevent this from occurring. The correct answer is: 3175

3.SIMULATION
This project will use data set cert.input08a and cert.input08b. At any time, you may save your program as program08 in cert\programs.
Both data sets contain a common numeric variable named ID.
Write a program that will use a SAS DATA Step to:
o Combine data sets cert.input08a and cert.input08b by
matching values of the ID variable.
o Write only observations that are in both data sets to a
new data set named results.match08.
o Write all other non-matching observations from either data set to a new data set named results.nomatch08. o Exclude all variables that begin with
"ex" from results.nomatch08.
How many observations (rows) are inresults.match08?
Enter your numeric answer in the space below:
Answer: 1200
Explanation:
SAS code that could be used to solve this project:
proc sort data=cert.input08a out=work.input08a;
by ID;
run;
proc sort data=cert.input08b out=work.input08b;
by ID;
run;
data results.match08 results.nomatch08 (drop=ex:);
merge work.input08a (in=a) work.input08b (in=b);
by ID;
if a and b then output results.match08;
else output results.nomatch08;
run;
proc contents data=results.match08;
run:
proc contents data=results.nomatch08;
run;
The correct answer is: 1200

4.SIMULATION
Scenario:

This project will use data set cert.input08a and cert.input08b. At any time, you may save your program as program08 in cert\programs.
Both data sets contain a common numeric variable named ID.
Write a program that will use a SAS DATA Step to:
o Combine data sets cert.input08a and cert.input08b by
matching values of the ID variable.
o Write only observations that are in both data sets to a
new data set named results.match08.
o Write all other non-matching observations from either data set to a new data set named results.nomatch08. o Exclude all variables that begin with
"ex" from results.nomatch08.
How many variables (columns) are in results.match08
Answer: 117
Explanation:

```
proc sort data=cert.input08b out=work.input08b;
by ID;
run:
data results.match08 results.nomatch08 (drop=ex: );
merge work.input08a (in=a) work.input08b (in=b);
by ID;
if a and b then output results.match08;
else output results.nomatch08;
run;
proc contents data=results.match08;
```

SAS code that could be used to solve this project:

```
proc
sort data=cert.input08a out=work.input08a;
by ID;
run:
run;
proc contents data=results.nomatch08;
run;
```

The correct answer is: 117

5.SIMULATION
Scenario:
This project will use data set cert.input08a and cert.input08b. At any time, you may save your program as program08 in cert\programs.
Both data sets contain a common numeric variable named ID.
Write a program that will use a SAS DATA Step to:
o Combine data sets cert.input08a and cert.input08b by matching values of the ID variable.
o Write only observations that are in both data sets to a new data set named results.match08.
o Write all other non-matching observations from either data set to a new data set named results.nomatch08.

o Exclude all variables that begin with "ex" from results.nomatch08.
How many observations (rows) are inresults.nomatch08?
Answer: 2
Explanation:
proc sort data=cert.input08b out=work.input08b;
by ID;
run:
SAS code that could be used to solve this project:
proc sort data=cert.input08a out=work.input08a;
by ID;
run:
data results.match08 results.nomatch08 (drop=ex:);
merge work.input08a (in=a) work.input08b (in=b);
by ID;
if a and b then output results.match08;
else output results.nomatch08;
run;
proc contents data=results.match08;
run;
proc contents data=results.nomatch08;
run;
The correct answer is: 2