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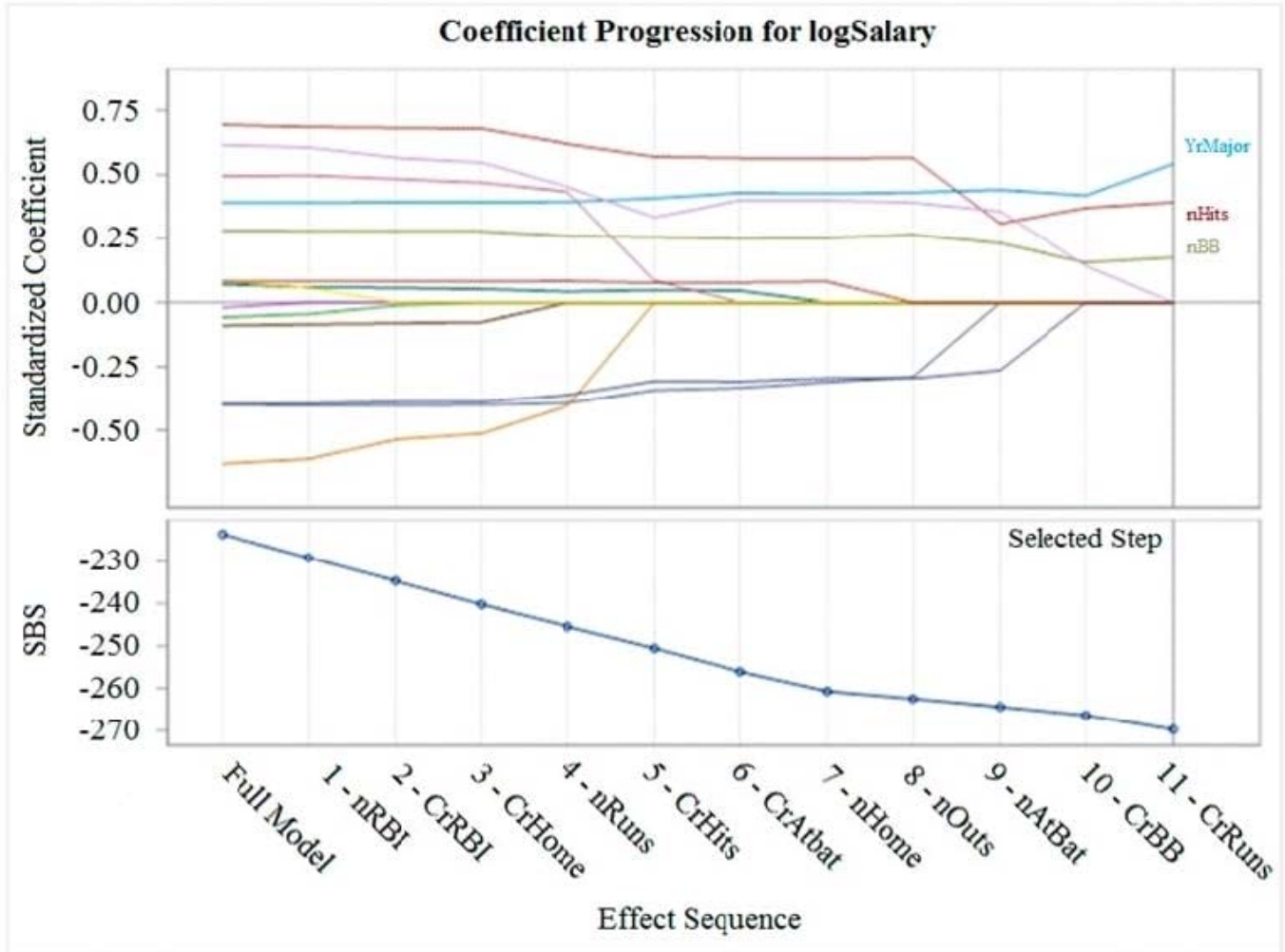
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QUESTION 1

PROC GLMSELECT was used for building a model predicting the natural log of a baseball player\\'s salary from certain performance and longevity statistics. The model used backward elimination using SBC as its selection criterion. The sequence of steps is summarized in the graphic shown below:

At Step 9 number of at bats (nAtBat) was removed from the model. Why was it removed?

A. Removing nAtBat had the largest effect on the parameter estimate of nHits.

B. The p-Value for nAtBat was largest.

C. Removing nAtBat yielded the largest improvement to SBC.

D. The p-Value for nAtBat was smallest.

Correct Answer: B
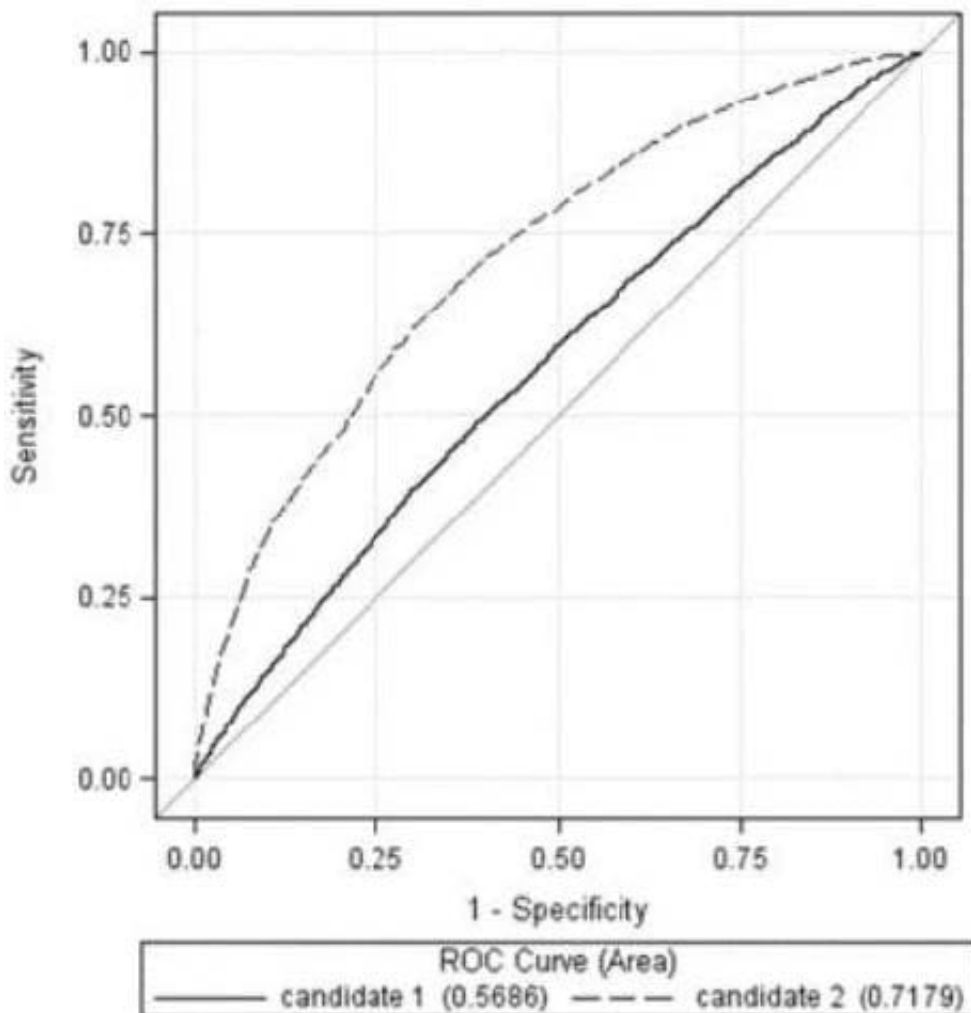
QUESTION 2

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Including redundant input variables in a regression model can:

A. Stabilize parameter estimates and increase the risk of overfitting.

B. Destabilize parameter estimates and increase the risk of overfitting.

C. Stabilize parameter estimates and decrease the risk of overfitting.

D. Destabilize parameter estimates and decrease the risk of overfitting.

Correct Answer: B

QUESTION 3

Refer to the exhibit: Based upon the comparative ROC plot for two competing models, which is the champion model and why?

A. Candidate 1, because the area outside the curve is greater

B. Candidate 2, because the area under the curve is greater

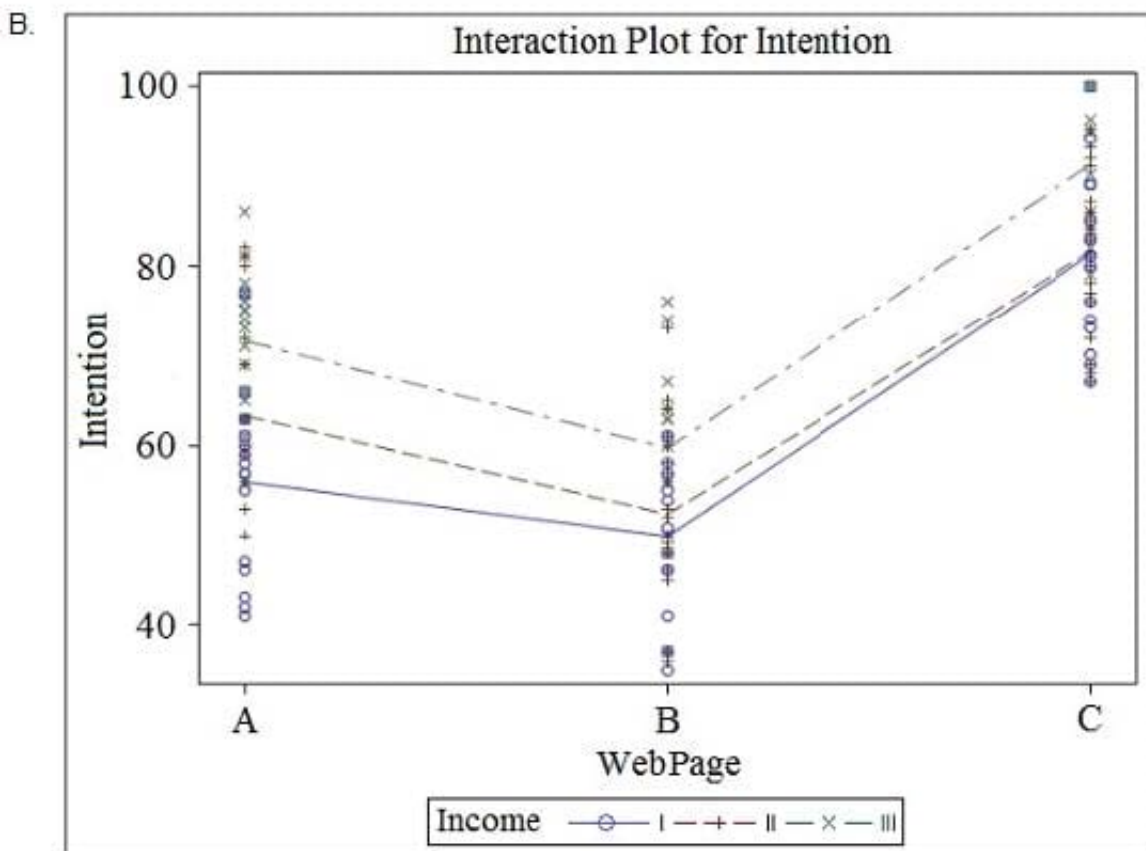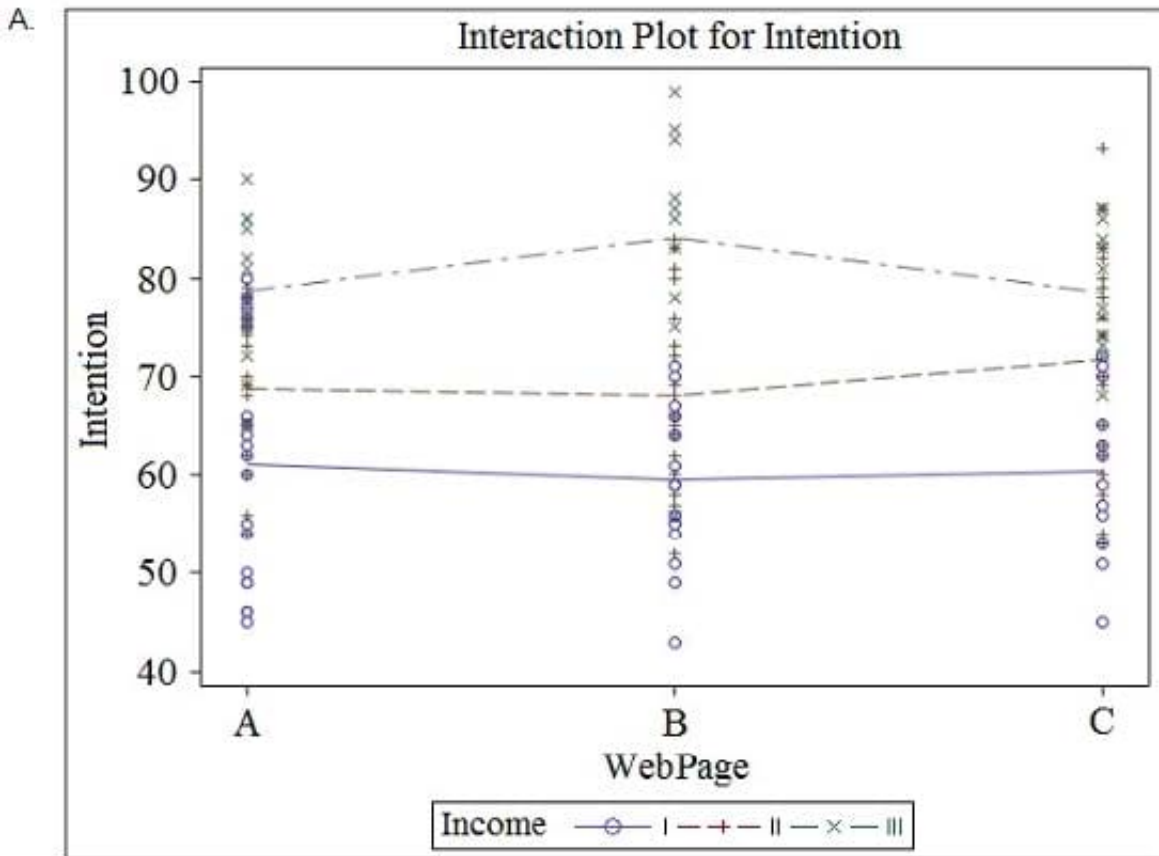C. Candidate 1, because it is closer to the diagonal reference curve

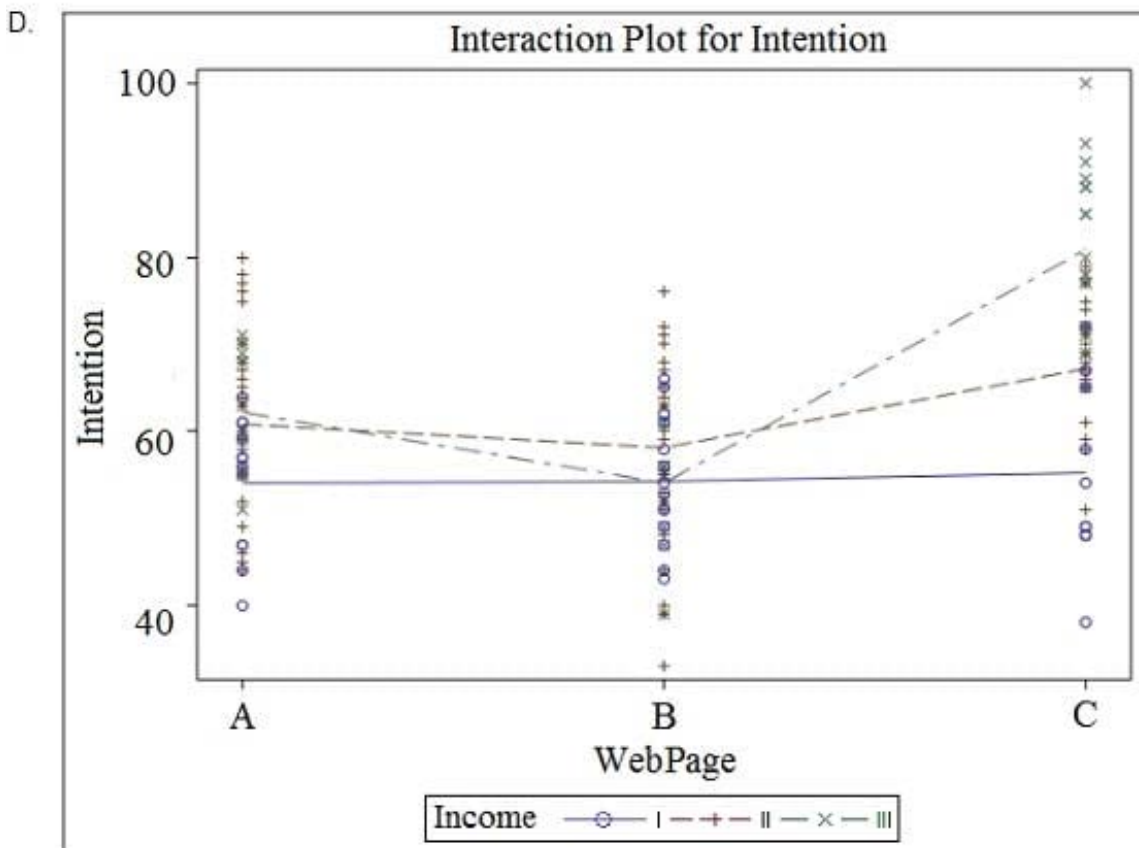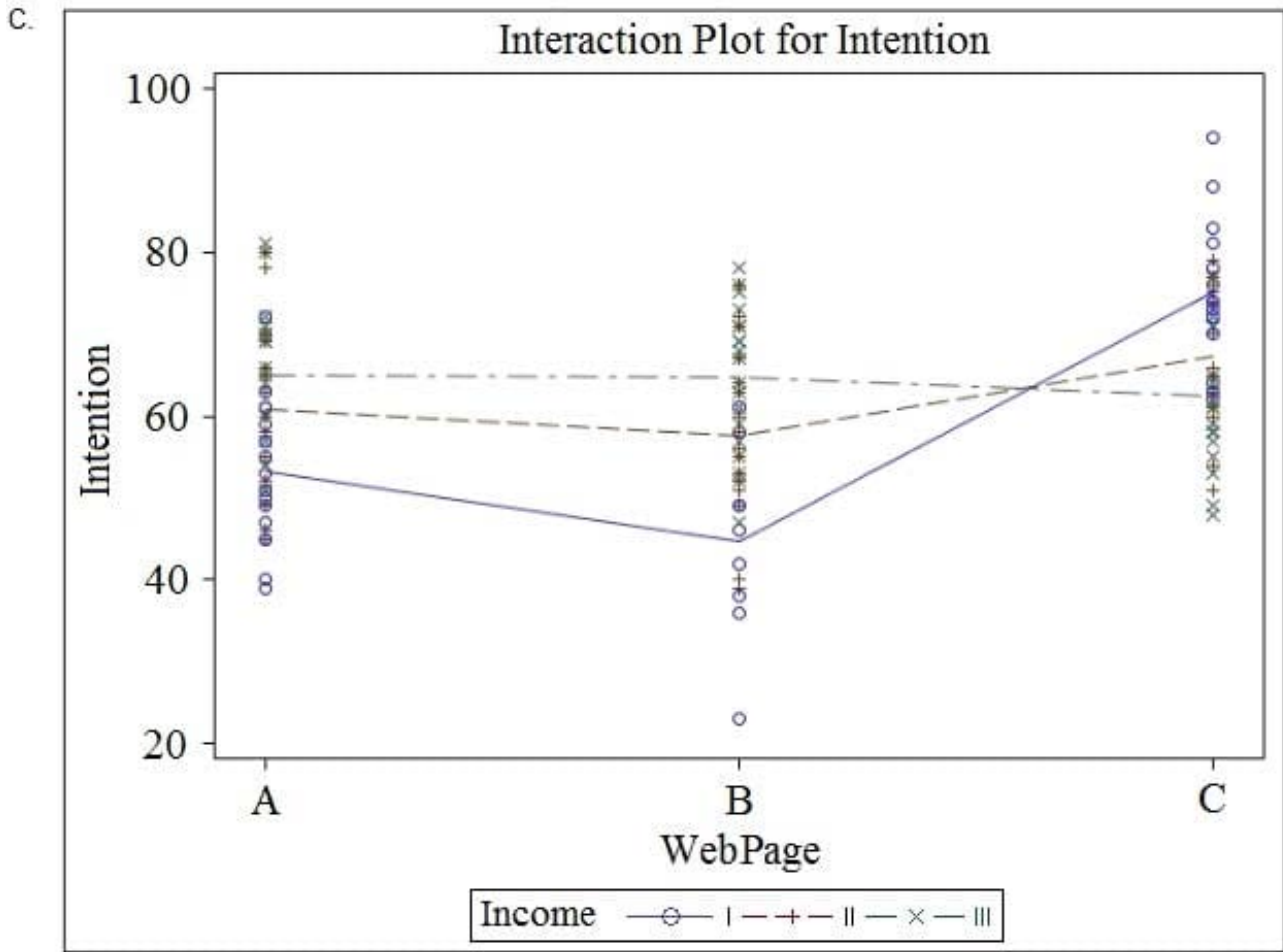D. Candidate 2, because it shows less over fit than Candidate 1

Correct Answer: B

QUESTION 4

A marketing analyst assessed the effect of web page design (A, B, or C) on customers\\' intent to purchase an expensive product. The focus group was divided randomly into three sub-groups, each of which was asked to view one of the web pages and then give their intent to purchase on a scale from 0 to 100. The analyst also asked the customers to give their income, which was coded as: I (lowest), II (medium), or III (highest). After analyzing the data, the analyst claimed that there was significant interaction and the webpage design mainly influenced high income people.

Which graph supports the analyst\\'s conclusion?

A.

Interaction Plot for Intention

B.

Interaction Plot for Intention

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C.

Interaction Plot for Intention

D.

Interaction Plot for Intention

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

QUESTION 5

Which SAS program will correctly use backward elimination selection criterion within the REG procedure?

```
C  A.   proc reg data=SASUSER.MLR;
            model y = x1-x10 /selection=backward sls=aic;
         run;

C  B.   proc reg data=SASUSER.MLR;
            model y = x1-x10 /selection=backward sls=0.15;
         run;

C  C.   proc reg data=SASUSER.MLR;
            model y = x1-x10 /selection=backward sle=cp;
         run;

C  D.   proc reg data=SASUSER.MLR;
            model y = x1-x10 /selection=backward sle=all;
         run;
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: B

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