A00-240^{Q&As}

SAS Certified Statistical Business Analyst Using SAS 9: Regression and Modeling Credential

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QUESTION 1

An analyst investigates Region (A, B, or C) as an input variable in a logistic regression model.

The analyst discovers that the probability of purchasing a certain item when Region = A is 1.
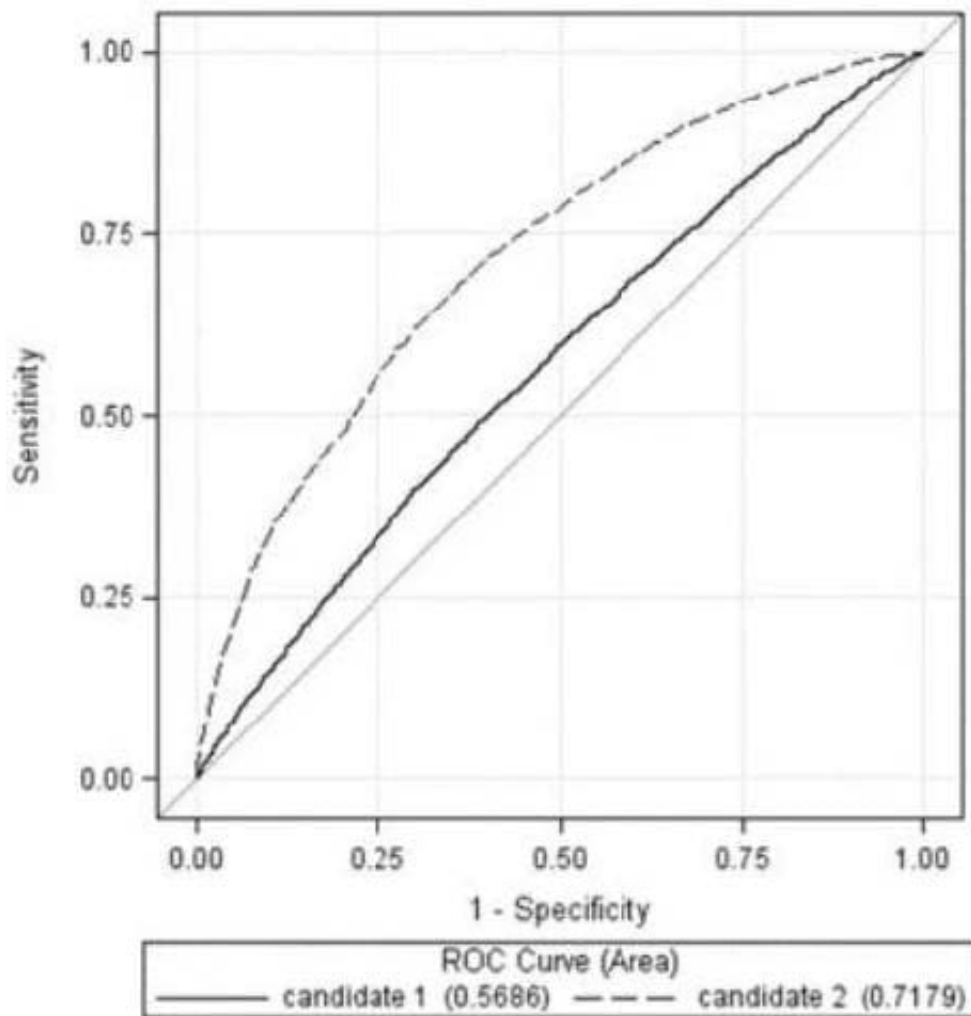
What problem does this illustrate?

A. Collinearity

B. Influential observations

C. Quasi-complete separation

D. Problems that arise due to missing values

Correct Answer: C

QUESTION 2

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

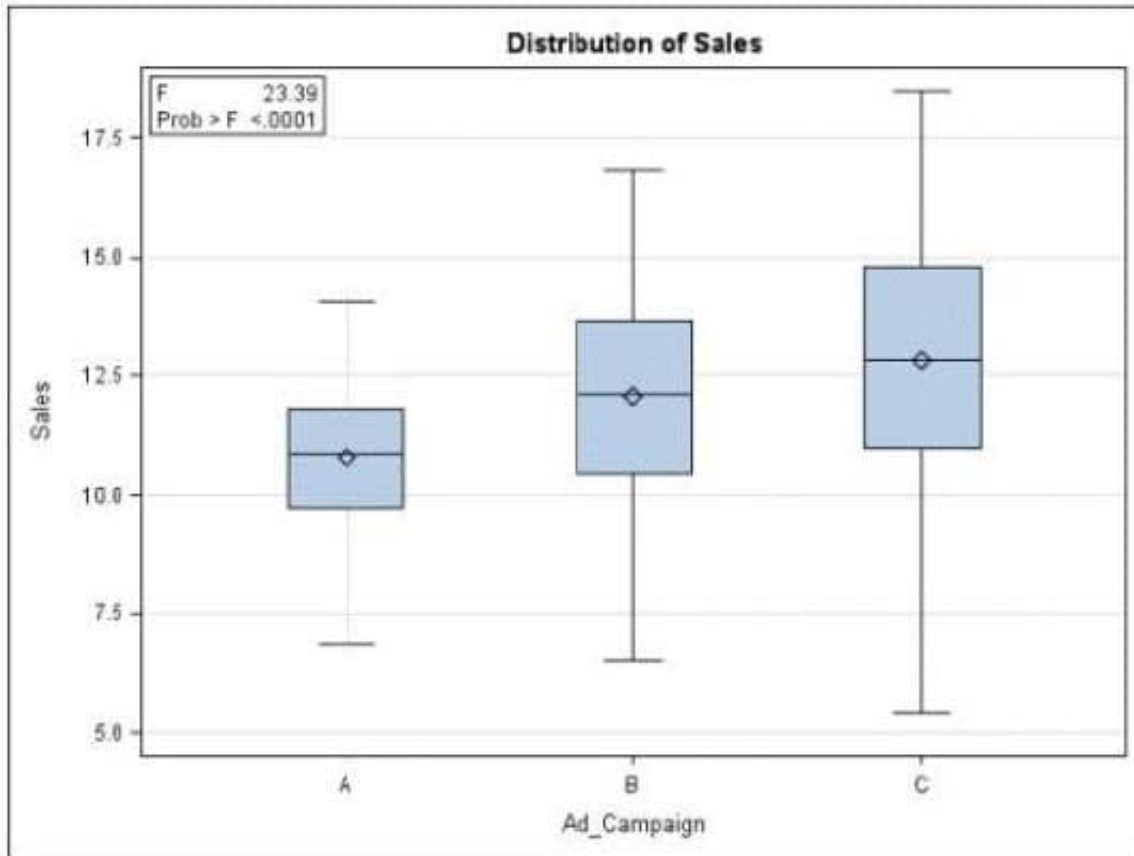ROC Curve (Area)
——— candidate 1 (0.5686) — — — candidate 2 (0.7179)

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 3

Refer to the exhibit:

The box plot was used to analyze daily sales data following three different ad campaigns. The business analyst concludes that one of the assumptions of ANOVA was violated.
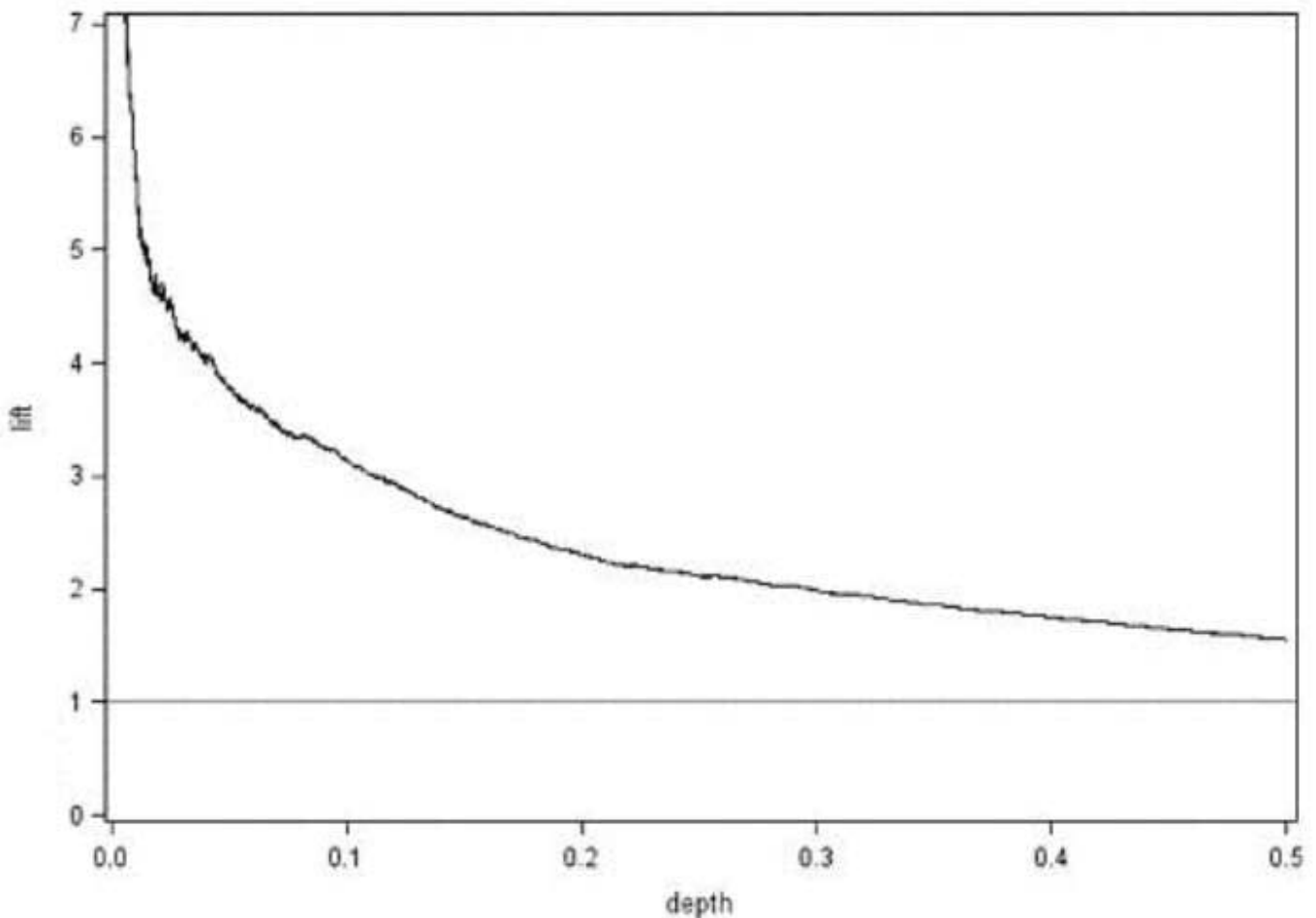
Which assumption has been violated and why?

A. Normality, because Prob > F

B. Normality, because the interquartile ranges are different in different ad campaigns.

C. Constant variance, because Prob > F

D. Constant variance, because the interquartile ranges are different in different ad campaigns.

Correct Answer: D

QUESTION 4

Refer to the lift chart:

At a depth of 0.1, Lift = 3.14. What does this mean?

A. Selecting the top 10% of the population scored by the model should result in 3.14 times more events than a random draw of 10%.

B. Selecting the observations with a response probability of at least 10% should result in 3.14 times more events than a random draw of 10%.

C. Selecting the top 10% of the population scored by the model should result in 3.14 times greater accuracy than a random draw of 10%.

D. Selecting the observations with a response probability of at least 10% should result in 3.14 times greater accuracy than a random draw of 10%.

Correct Answer: A

QUESTION 5

In partitioning data for model assessment, which sampling methods are acceptable? (Choose two.)

A. Simple random sampling without replacement

B. Simple random sampling with replacement

C. Stratified random sampling without replacement

D. Sequential random sampling with replacement

Correct Answer: AC

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