# Which data mining algorithm belongs to the Expectation-Maximization class?

- A. Apriori
- B. K-Means
- C. Decision tree
- D. None of the above

## Supervised discretization ...

- A. Can only be applied after unsupervised equalwidth discretization
- B. Attempts to merge intervals where the class label does not depend on the attribute value distribution
- C. Merges intervals if the value of the  $\chi^2$  statistics is above 0.05
- D. Works only for binary class labels

### The filtering approach to feature selection ...

- A. tests whether features are independent among each other
- B. tests whether a feature is dependent on the class label
- C. tests whether a feature is dependent on the classifier
- D. eliminates strongly correlated features

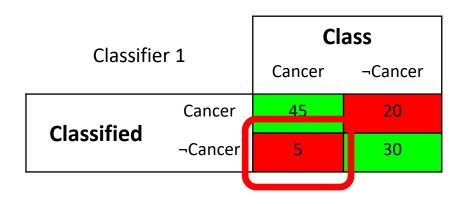
#### Which is the "best" classifier?

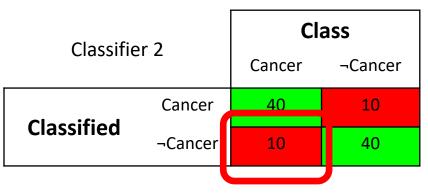




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- C. Both are equally good

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#### In k-fold cross-validation ...

- A. 1/k of the labelled data is used for training
- B. The prediction is the average of k different models
- C. The k validation sets are disjoint
- D. The resulting error is an estimate of the quality of the classifier on real-world data

## Which is wrong?

- A. The lower model complexity, the higher bias
- B. The higher model complexity, the higher variance
- C. The higher the data volume, the higher the training error
- D. The training error is always higher than the test error