

# ISLP Exercises Chapter 2

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## Conceptual

1. For each of parts (a) through (d), indicate whether we would generally expect the performance of a flexible statistical learning method to be better or worse than an inflexible method. Justify your answer.
  - (a) The sample size  $n$  is extremely large, and the number of predictors  $p$  is small.
  - (b) The number of predictors  $p$  is extremely large, and the number of observations  $n$  is small.
  - (c) The relationship between the predictors and response is highly non-linear.
  - (d) The variance of the error terms, i.e.  $\sigma = \text{Var}(\epsilon)$ , is extremely high.

## Answer