Problem 1

The number of parameters to estimate is

1. For the input has 100 features, and each feature and the label are binary
2. When the input has a large dimension, it is not feasible to estimate the parameters without naïve Bayesian assumption because the number of parameters to estimate grows exponentially with respect to the dimension.

For example, with 100 dimensional data and naïve Bayesian assumption, the number of parameters to estimate is