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|--|--|
| 1. Let \mathcal{M}_0 denote the <i>null</i> model, which contains no predictors. | |
| 2. For $k = 0, \dots, p-1$: | |

Algorithm 6.2 Forward stepwise selection

(a) Consider all p-k models that augment the predictors in \mathcal{M}_k with one additional predictor.

(b) Choose the best among these p - k models, and call it M_{k+1}. Here best is defined as having smallest RSS or highest R².
3. Select a single best model from among M₀,..., M_p using cross-

validated prediction error, C_p (AIC), BIC, or adjusted R^2 .