- Algorithm 6.1 Best subset selection
 1. Let \$\mathcal{M}_0\$ denote the null model, which contains no predictors. This model simply predicts the sample mean for each observation.
 2. For \$k = 1, 2, \ldots p\$:
 - (a) Fit all (^p_k) models that contain exactly k predictors.
 (b) Pick the best among these (^p_k) models, and call it M_k. Here best
 - (b) Pick the best among these (\$\frac{1}{k}\$) models, and can it \$\mathcal{M}_k\$. Here best is defined as having the smallest RSS, or equivalently largest \$R^2\$.
 3. Select a single best model from among \$\mathcal{M}_0, \ldots, \mathcal{M}_p\$ using cross-

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