CS181 Assignment 1

Joy Ming and Alisa Nguyen (9 February 2013)

- 1. Decision Trees and ID3
 - (a) ID3 will chose to split on A because it has a higher information gain.
 - Splitting on B will have an information gain of $Gain(X_k, B) = H(B) Remainder(X_k, B) = ?? \frac{2}{7}(\frac{1}{2}\log_2 2 + \frac{1}{2}\log_2 2 + \frac{3}{7}(\frac{2}{3}\log_2 \frac{3}{2} + \frac{1}{3}\log_2 3)$
- 2. ID3 and Pruning
- 3. Boosting
- 4. Tree Analysis