# Finding the Optimal Threshold.

* Describe an Algorithm for finding the optimal Feature Threshold for splitting a dataset in 2.
* We will be using Information Gain for this. In terms of Decision Trees.
* An Algorithm for finding the optimal Feature Threshold when we want to split a dataset into 2 Sets.

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| *7.* | threshold := threshold on feature that maximizes evalMeasure. |

* In the code for the Induction Phase for Building a Decision Tree, in line 7 we have:
  + It says: We are going to pick a Threshold on whatever Feature we are currently looking at (in the for loop that starts at line 6.). That maximizes the evalMeasure.
  + So, whatever we are using as our eval() function, we want to find a Threshold on this Feature, that is going to give us the best evalMeasure.