Hamin Han

Question 1)

a) Classification

b) Discrete Features

    i) Credit Card Number

    ii) Date

    iii) Zip Code

    iv) Transaction Type

c) Continuous Features

    i) Trasaction Price

    ii) Reciever Old Balance

    iii) Reciever New Balance

d) You could stanardize the continuos features or categorize the variables into ranges.

e) When there's meaningless regularity in data irrelevant to true distinguishing features. When a statistical model describes random error or noise instead of underlying relationship. By pruning lower nodes in a decision tree. If gain of best attribute at a node is below a threshold, stop and make this node a leaf rather than generating children nodes.

f)
```
                    [B]
                   /    \
                 [0]     [1]
               Class 2  Class 1
```