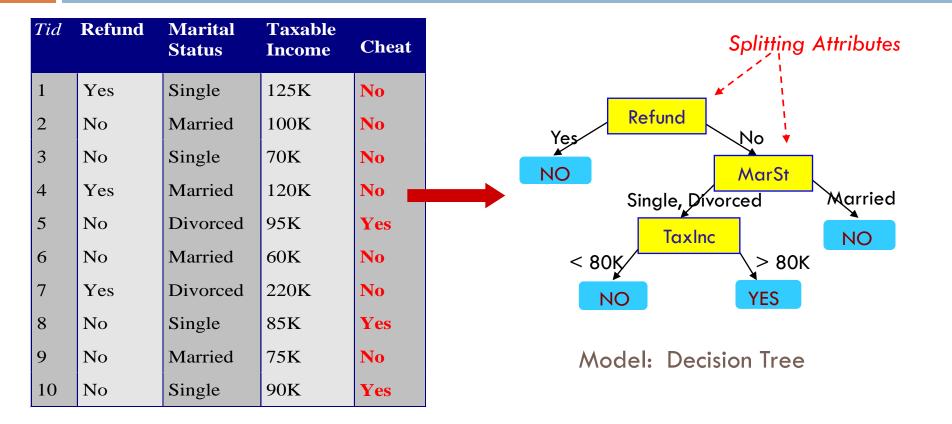
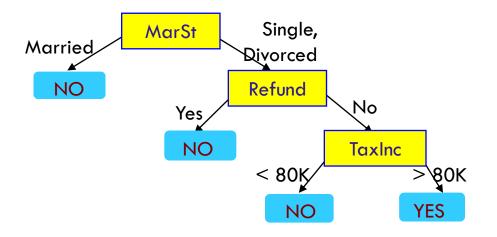
# DECISION TREES

#### **Decision Tree**



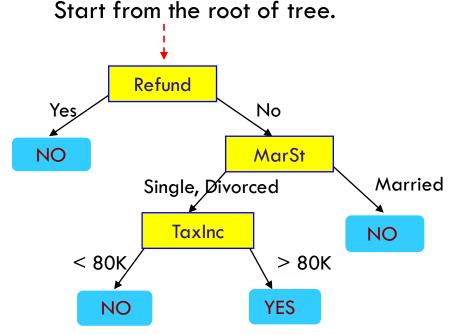
# Another Example of Decision Tree

Tid	Refund	Marital Status	Taxable Income	Cheat
1	Yes	Single	125K	No
2	No	Married	100K	No
3	No	Single	70K	No
4	Yes	Married	120K	No
5	No	Divorced	95K	Yes
6	No	Married	60K	No
7	Yes	Divorced	220K	No
8	No	Single	85K	Yes
9	No	Married	75K	No
10	No	Single	90K	Yes



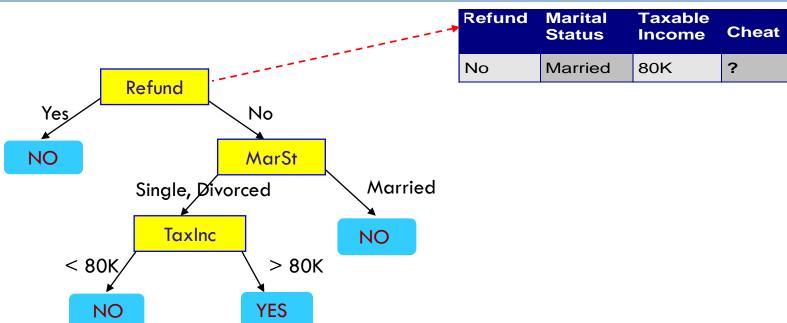
There could be more than one tree that fits the same data!

#### Test Data

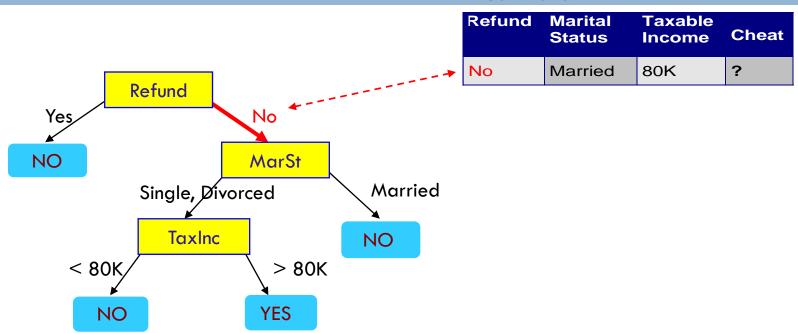


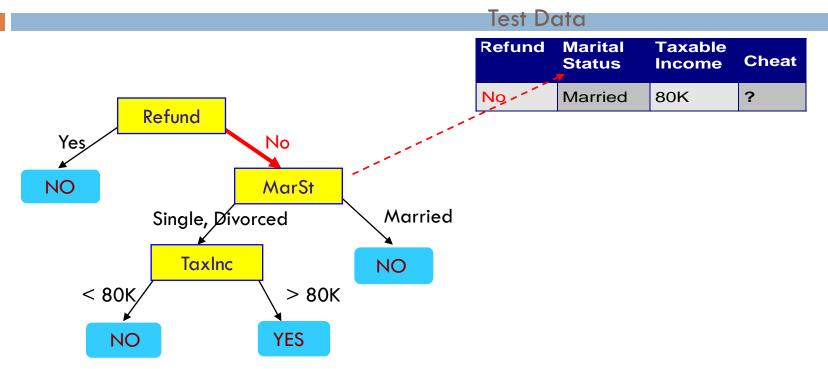
Refund	Marital Status	Taxable Income	Cheat
No	Married	80K	?

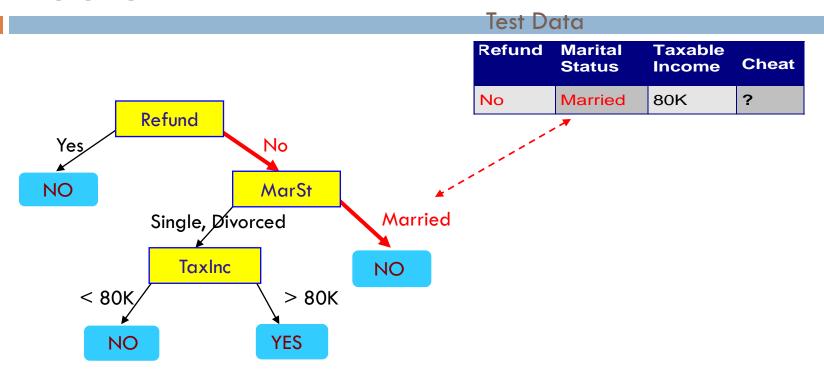


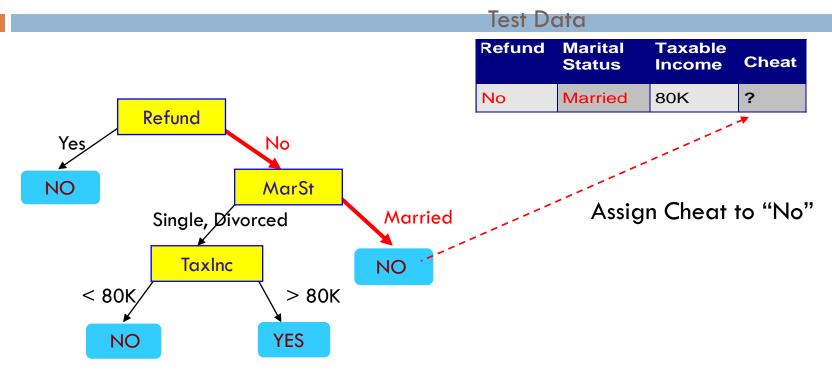


#### Test Data









A Simple Algorithm

