EXERCISE DECISION TREES

Using the data set GOLF given below, obtain a decision tree through the manual execution of the algorithm "the most discriminating attribute"; in the case of continuous attributes, make the binary partition based on the median of the set of values that such an attribute takes.

classes: *C* = {*play*, *not_play*}
attributes and values:
  condition: *sunny*, *cloudy*, *rainy*
  temperature: *continuous value*
  humidity: *continuous value*
  wind: *yes*, *no*

condition	temperature	humidity	wind	class
sunny	85	85	no	**not_play**
sunny	80	90	yes	**not_play**
cloudy	83	78	no	**play**
rainy	70	96	no	**play**
rainy	68	80	no	**play**
rainy	65	70	yes	**not_play**
cloudy	64	65	yes	**play**
sunny	72	95	no	**not_play**
sunny	69	70	no	**play**
rainy	75	80	no	**play**
sunny	75	70	yes	**play**
cloudy	72	90	yes	**play**
cloudy	81	75	no	**play**
rainy	71	80	yes	**not_play**