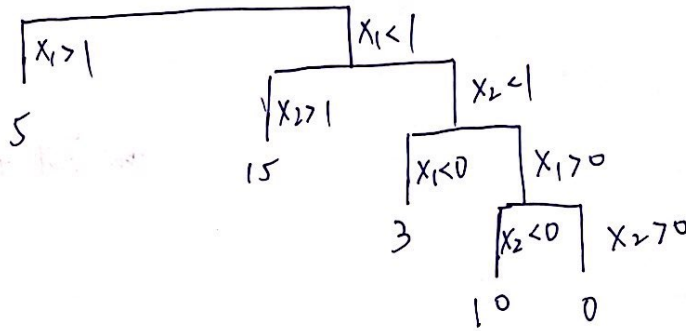


1.



2.

Majority vote : if we set the boundary for "Class is Red" as 0.5

$$\Rightarrow \Pr(\text{class is Red} | X) = \frac{3}{5} = 0.6 \neq$$

Average probability :  $\Pr(\text{class is Red} | X) = \frac{0.1 + 0.2 + 0.55 + 0.6 + 0.75}{5}$

$$= 0.44 \neq$$