Gain (Ten) = 0.918 -  $\leq \frac{2}{3}E(1,1) + \frac{1}{3}E(0,1)$ = 0.9(8 - 0.667 = 0.25) (gain (first More) = 0.918 - 2 = [1,1) + = [0,1)

so, This not tree optimal.

2. Play = Hit:

[1,2] x 0, q 18

The Tolse.

(All = Time 1 Ten = Talse) V

[1,2] x 0, q 18

The Tolse.

3. Greedy Alg. means, don't need to get all optimal choice. Which make dicklon tree in expensive and faster.

4. In majority classifler. Testing dates

15 Pos or Neg which make Training

device 99 Pos loo Neg or 100 pos 99 ng

This make Accur always be 0%.

total Acc = \( \frac{5}{1800} \)