

Problem 2 (a)

A	B	Class
0.5	0.27	C1
0.41	0.54	C2
0.95	0.3	C2
0.25	0.62	C1
0.32	0.81	C2

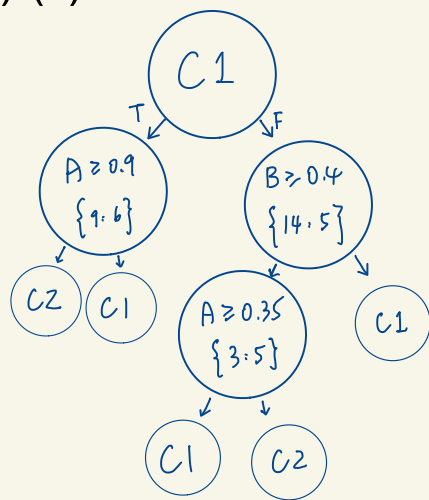


A	B	Class
0.5	0.27	C1
0.41	0.54	C1
0.95	0.3	C2
0.25	0.62	C2
0.32	0.81	C2

true  
false  
true  
false  
true

The accuracy is  $\frac{3}{5}$ .

Problem 2 (b) (1)

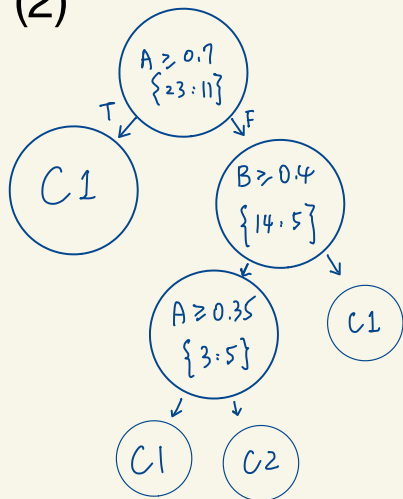


replace root to C1  
 $A \geq 0.7$   
 $\{23:11\}$

The accuracy is  $\frac{2}{5}$ .

A	B	Class
0.5	0.27	C1
0.41	0.54	C1
0.95	0.3	C1
0.25	0.62	C1
0.32	0.81	C1

Problem 2 (b) (2)



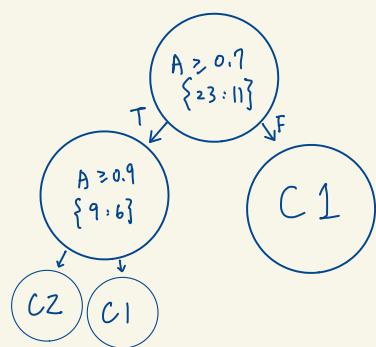
replace  $A \geq 0.9$   
 $\{9:6\}$  to C1

The accuracy is  $\frac{2}{5}$ .

C2		
C1	A	B
	0.5	0.27
	0.41	0.54
	0.95	0.3
	0.25	0.62
	0.32	0.81
		Class
		C1
		C1
		C1
		C2
		C2

Problem 2 (b) (3)

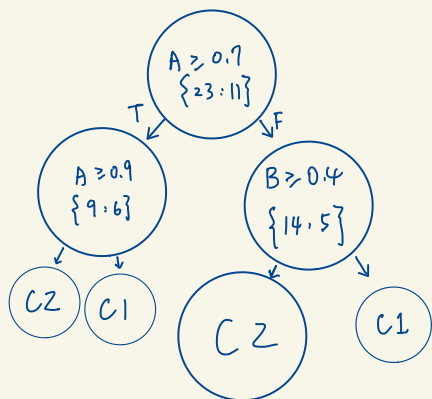
replace  $\begin{matrix} B \geq 0.4 \\ \{14, 5\} \end{matrix}$  to C1



The accuracy is  $\frac{3}{5}$ .

A	B	Class
0.5	0.27	C1
0.41	0.54	c1
0.95	0.3	C2
0.25	0.62	C1
0.32	0.81	c1

Problem 2 (b) (4)

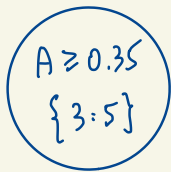


replace  $\begin{matrix} A \geq 0.35 \\ \{3, 5\} \end{matrix}$  to C2

The accuracy is  $\frac{4}{5}$ .

A	B	Class
0.5	0.27	C1
0.41	0.54	C2
0.95	0.3	C2
0.25	0.62	C2
0.32	0.81	C2

Problem 2 (c)



should be pruned first.