X: TACCC GAT

Y: TAAACGAT

W: AAAACGAT

Hamming	Distance	Matrix

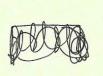
_	X	14	1 7	W
X	0	2	5	3
4		0	3	1
3			0	2
w				0

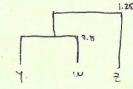
/	×	1 3	1 yw 1
×	D	5	2.5
7		D	2.5
yw			D

$$d(y_{\omega}, x) = \frac{d(y_{\omega}, x) + d(\omega_{\omega}, x)}{2} = \frac{2 \cdot 3}{2}$$

$$= 2.5$$

$$d(y_{\omega}, z) = d(y_{\omega}) + d(\omega_{\omega}, z) = \frac{3 \cdot 2}{2}$$

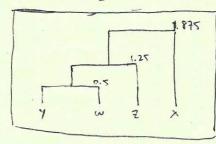




1	X	tyw!
χ	0	3.75
Zyw		0

$$d(z_{\gamma w, x}) = d(z, x) + d(\gamma w, x) = \frac{512.5}{2}$$

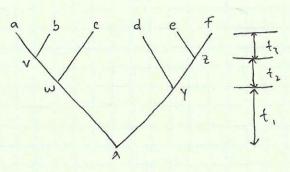
= 3.75



This tree is not ultramedric

* See part b) on bootstrapping in the attached mailab code

(2) Show the expression for obtaining Pr (a,b,c,d,e,f | T,m)



Pay(ti) ~ prob of going from à do