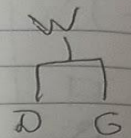
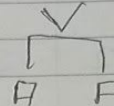


Date

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	B	C	E	W
B	-	2	2	2.5
C		-	3	3
E			-	3
W				-



$$d_{WB} = \frac{N_D \cdot d_{DB} + N_G \cdot d_{GB}}{N_D + N_G} = \frac{1 \cdot 2 + 1 \cdot 3}{2} = 2.5$$

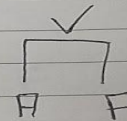
$$d_{WC} = \frac{N_D \cdot d_{DC} + N_G \cdot d_{GC}}{N_D + N_G} = \frac{1 \cdot 4 + 1 \cdot 2}{2} = 3$$

$$d_{WE} = \frac{N_D \cdot d_{DE} + N_G \cdot d_{GE}}{N_D + N_G} = \frac{1 \cdot 3 + 1 \cdot 2}{2} = 2.5$$

step 1

	A	B	C	D	E	F	G
A	-	2	3	2	4	1	2
B		-	2	2	2	2	3
C			-	4	3	3	2
D				-	3	2	2
E					-	2	2

	B	C	D	E	G	✓
B	-	-	2	2	3	2
C			4	3	2	6
D				3	2	2
E					2	3



$$d_{VB} = \frac{N_A \cdot d_{AB} + N_F \cdot d_{FB}}{N_A + N_F} = \frac{1 \cdot 2 + 1 \cdot 2}{2} = 2$$

$$d_{VC} = \frac{N_A \cdot d_{AC} + N_F \cdot d_{FC}}{N_A + N_F} = \frac{1 \cdot 3 + 1 \cdot 4}{2} = 3.5$$

$$d_{VD} = \frac{N_A \cdot d_{AD} + N_F \cdot d_{FD}}{N_A + N_F} = \frac{1 \cdot 2 + 1 \cdot 2}{2} = 2$$

$$d_{VE} = \frac{N_A \cdot d_{AE} + N_F \cdot d_{FE}}{N_A + N_F} = \frac{1 \cdot 4 + 1 \cdot 2}{2} = 3$$

1)

A	C	G	-	-	T	A
A	C	-	-	-	T	A
C	C	C	-	-	C	A
C	G	C	-	A	A	A
C	G	G	G	A	A	A
m_1	m_2	m_3			m_4	m_5

