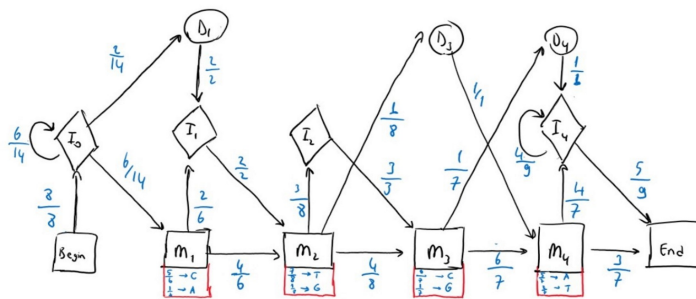


- 1)  $\text{Begin} \rightarrow I_0 \rightarrow I_0 \rightarrow D_1 \rightarrow I_1 \rightarrow M_2 \rightarrow M_3 \rightarrow M_4 \rightarrow I_4 \rightarrow \text{End}$
- 2)  $\text{Begin} \rightarrow I_0 \rightarrow I_0 \rightarrow M_1 \rightarrow I_1 \rightarrow M_2 \rightarrow M_3 \rightarrow M_4 \rightarrow I_4 \rightarrow I_4 \rightarrow \text{End}$
- 3)  $\text{Begin} \rightarrow I_0 \rightarrow M_1 \rightarrow I_1 \rightarrow M_2 \rightarrow I_2 \rightarrow M_3 \rightarrow M_4 \rightarrow \text{End}$
- 4)  $\text{Begin} \rightarrow I_0 \rightarrow I_0 \rightarrow M_1 \rightarrow M_2 \rightarrow D_3 \rightarrow M_4 \rightarrow I_4 \rightarrow I_4 \rightarrow \text{End}$
- 5)  $\text{Begin} \rightarrow I_0 \rightarrow D_1 \rightarrow I_1 \rightarrow M_2 \rightarrow M_3 \rightarrow M_4 \rightarrow \text{End}$
- 6)  $\text{Begin} \rightarrow I_0 \rightarrow I_0 \rightarrow M_1 \rightarrow M_2 \rightarrow I_2 \rightarrow M_3 \rightarrow M_4 \rightarrow I_4 \rightarrow I_4 \rightarrow \text{End}$
- 7)  $\text{Begin} \rightarrow I_0 \rightarrow I_0 \rightarrow M_1 \rightarrow M_2 \rightarrow I_2 \rightarrow M_3 \rightarrow M_4 \rightarrow \text{End}$
- 8)  $\text{Begin} \rightarrow I_0 \rightarrow I_0 \rightarrow M_1 \rightarrow M_2 \rightarrow M_3 \rightarrow D_4 \rightarrow I_4 \rightarrow \text{End}$



	" "	C	T	C	T	G	A
Begin	1	0	0	0	0	0	0
$I_0$	0	$\frac{1}{4} \cdot (\frac{3}{14})^0$	$\frac{1}{4} \cdot (\frac{3}{14})^1$	$\frac{1}{4} \cdot (\frac{3}{14})^2$	$\frac{1}{4} \cdot (\frac{3}{14})^3$	$\frac{1}{4} \cdot (\frac{3}{14})^4$	$\frac{1}{4} \cdot (\frac{3}{14})^5$
$I_1$	0	0	$\frac{1}{12} \cdot (\frac{3}{14})^0$	$\frac{1}{12} \cdot (\frac{3}{14})^1$	$\frac{5}{12} \cdot (\frac{3}{14})^2$	$\frac{1}{12} \cdot (\frac{3}{14})^3$	$\frac{1}{12} \cdot (\frac{3}{14})^4$
$I_2$	0	0	0	0	0	$\frac{5}{12} \cdot (\frac{3}{14})^0$	$\frac{1}{12} \cdot (\frac{3}{14})^1$
$I_4$	0	0	0	0	0	0	$\frac{5}{12} \cdot (\frac{3}{14})^0$
$D_1$	0	$\frac{1}{12} \cdot (\frac{3}{14})^0$	$\frac{1}{12} \cdot (\frac{3}{14})^1$	$\frac{1}{12} \cdot (\frac{3}{14})^2$	$\frac{1}{12} \cdot (\frac{3}{14})^3$	$\frac{1}{12} \cdot (\frac{3}{14})^4$	$\frac{1}{12} \cdot (\frac{3}{14})^5$
$D_3$	0	0	0	0	$\frac{1}{12} \cdot \frac{5}{12}$	$\frac{5}{12} \cdot \frac{5}{12}$	0
$D_4$	0	0	0	0	0	$\frac{5}{12} \cdot \frac{5}{12}$	0
$M_1$	0	0	0	$\frac{1}{12} \cdot \frac{5}{12}$	0	0	$\frac{5}{12} \cdot \frac{3}{14} \cdot (\frac{3}{14})^4$
$M_2$	0	0	0	0	$\frac{1}{12} \cdot \frac{5}{12}$	$\frac{5}{12} \cdot \frac{5}{12}$	0
$M_3$	0	0	0	0	0	$\frac{5}{12} \cdot \frac{5}{12}$	0
$M_4$	0	0	0	0	0	0	$\frac{5}{12} \cdot \frac{5}{12}$
End	0	0	0	0	0	0	$\frac{5}{12} \cdot \frac{5}{12}$

$\text{Begin} \rightarrow I_0 \rightarrow I_0 \rightarrow M_1 \rightarrow M_2 \rightarrow M_3 \rightarrow M_4 \rightarrow \text{End}$   
 - C T C T G A -