

1 2 3

$3/5$ letters is $0 \rightarrow$ other 2 $\binom{4}{2} = 6$

$$6 + 4 + 1 = 11$$

$$I_v = 5! = 120$$

$$2v = \frac{5!}{2!} \times 4 = 240 = 480$$

$$3v = \frac{5!}{3!} \times 6 = 120$$

$$2. \begin{pmatrix} 13 \\ 2 \end{pmatrix} \begin{pmatrix} 4 \\ 2 \end{pmatrix} \begin{pmatrix} 4 \\ 2 \end{pmatrix} \begin{pmatrix} 44 \\ 1 \end{pmatrix} = 18 \times 6 \times 6 \times 44 = 123552$$

$$3. \begin{pmatrix} 21 \\ 5 \end{pmatrix} + \begin{pmatrix} 20 \\ 5 \end{pmatrix} = 20349 + 15504 = 35853$$

4. 2 nodes: $1^2 \quad 1_2 \rightarrow 2$

3 nodes: $\begin{matrix} 1 \\ 2 \\ 3 \end{matrix}$ $\begin{matrix} 1 & 2 \\ & 3 \end{matrix}$ $\begin{matrix} 1 \\ 2 & 3 \end{matrix}$ $\begin{matrix} 1 & 2 & 3 \\ & & \end{matrix}$ $\begin{matrix} 1 & 2 \\ & 3 \end{matrix}$ $\begin{matrix} 1 & 2 \\ & 3 \end{matrix}$ $\rightarrow 5$

[illegible]

$\begin{pmatrix} 1 \\ 2 & 4 \\ & 3 \end{pmatrix}$

→ 14

root node

1 →	3	5		
2 →	1 and 2	2	+	
3 →	2 and 1	2	+	= 14
4 →	3	5		

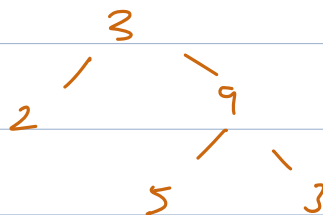
5 nodes :

root :

1 →	4	14		
2 →	1 & 3	5	+	
3 →	2 & 2	4	+	= 42
4 →	3 & 1	5	+	
5 →	4	14		

12 nodes

root → 3



l = 2

r = 9

↓

5 (42 pos)

$$2 + 42 + 5 = 49$$

5.