

کستی لیزر علی

4! = 24 ①

$(4-1)! \rightarrow 3! = 6$ ②

$\frac{4!}{4} = 6$ ③

$\binom{4}{4} = \binom{4}{0} \rightarrow$ (انتخاب 4 از 4) $\binom{4}{4} \times 1! = \frac{4 \times 3 \times 2 \times 1}{4!} \times (1 \times 1 \times 1 \times 1) = 1$ ④

$\binom{4}{4} = \binom{4}{0} \quad \binom{4}{4} \times 1! = \frac{4 \times 3 \times 2 \times 1}{4!} \times 1 = 1$ ⑤

انتخاب 1 → $(4-1)! = 3!$

$\binom{4}{4} \frac{1!}{4} = \frac{4 \times 3 \times 2 \times 1}{4!} \times 1 = 1$ ⑥

f e d c a b $\binom{4}{4} \times 1! = \frac{4 \times 3 \times 2 \times 1}{4!} \times 1 = 1$ ⑦

f e b a (c d) $3! = 6$ ⑧

f e b a (c d) $3! \times 2! = 12$ ⑨

می توانیم جای نشین کنیم

$\frac{4!}{4!} = 1$ ⑩

d c f a b (c d e) $1! \times 3! = 6$ ⑪

