



بسته‌ها

$$\binom{6}{1} \binom{5}{2} \binom{3}{3} = 15$$

بسته‌ها

$$\binom{6}{1} \binom{3}{2} \binom{2}{3} = 9$$

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بسته‌ها

$$\binom{6}{4} \binom{2}{1} = 15$$

بسته‌ها

$$\binom{6}{3} \binom{3}{2} = 9$$

$$\binom{6}{2} \binom{4}{3} = 15$$

بسته‌ها

$$\binom{6}{4} \binom{2}{1} = 15$$

بسته‌ها

$$\binom{6}{3} \binom{3}{1} = 12$$

$$\frac{6!}{2!3!} = \frac{6 \times 5 \times 4 \times 3 \times 2}{2 \times 3 \times 3} = 6 \times 2 = 12$$

(14)

$$\frac{6!}{2!3!} = \frac{6 \times 5 \times 4 \times 3 \times 2}{2 \times 3 \times 3} = 6 \times 2 = 12$$

(15)

||| =  $\frac{3!}{3!} = 1$     1 2 3     $\frac{3!}{3!} = 1$      $1+2+3+2+3+3 = 19$

||2 =  $\frac{3!}{2!1!} = 3$     1 2 3     $\frac{3!}{2!1!} = 3$

||3 =  $\frac{3!}{1!2!} = 3$     2 3 3     $\frac{3!}{1!2!} = 3$

(16)

$$\binom{6}{2} \times \binom{4}{2} = \frac{6 \times 5}{2} \times \frac{4 \times 3}{2} = 15 \times 6 = 90$$

(17)

RRRRR UUU

$$\frac{6!}{5!1!} = \binom{6}{1} = \binom{6}{5} = \frac{6 \times 5 \times 4 \times 3 \times 2}{5 \times 4 \times 3 \times 2} = 6$$

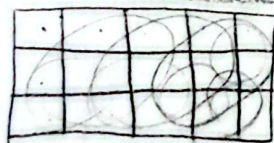
(18)

5 ستون داریم هر ستون 4 حرف است

A B

$$4 \times 4 \times 4 \times 4 \times 4 = 4^5 = 1024$$

(19)



$$2 + 4 \times 2 + 5 \times 2 = 2 + 8 + 10 = 20$$

(20)