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## Calcolo combinatorio

Qualità & Ordine = Qualità + Ordine

$$D_{n,k} = C_{n,k} \cdot P_k$$

### Semplici Con ripetizioni

$D$

$n$

,

$k$

=

$n$

(

$n$

?

Calcolo Combinatorio (Italian Edition) 1

)(

$n$

?

2

)

?

.....

?

(

$n$

?

$k$

+

1

) =  $n!$

**(0)!**

$D$

=  $n \cdot k^{n,k}$

### Disposizioni

Dati  $n$  elementi e detto  $k$  un numero intero positivo, si dice *disposizione con ripetizione* il numero dei raggruppamenti che si possono formare con gli  $n$  elementi presi  $k$  a  $k$  che differiscano per l'ordine degli elementi o per almeno uno degli stessi, o per la ripetizione  
Calcolo Combinatorio (Italian Edition) degli oggetti

Dati  $n$  Calcolo Combinatorio (Italian Edition) elementi e detto  $k$  un numero intero positivo minore o uguale a  $n$ , si dice *disposizione semplice* il numero dei raggruppamenti che si possono formare con gli  $n$  elementi presi  $k$  a  $k$  che differiscano per l'ordine degli elementi o per almeno uno degli stessi **IN QUESTO CASO CONTA LA QUALITA' E L'ORDINE**

$$P_k = k!$$

**Permutazioni** Dati  $n$  elementi si definiscono *permutazioni semplici* il numero dei raggruppamenti, differenti per l'ordine degli elementi

**IN QUESTO CASO CONTA L'ORDINE**

$P$

$n$

?

$$(k_1, k_2, \dots, k_m) = n!$$

$$k_1! \cdot k_2! \cdot \dots \cdot k_m!$$

Dati  $n$  elementi si definiscono *permutazioni con ripetizione* il numero dei raggruppamenti, differenti per l'ordine degli elementi e nei quali è possibile la ripetizione

$C$

$$n, k = D_{n,k} = \frac{n!}{k!} \quad \text{Calcolo Combinatorio (Italian Edition)}$$

$n!$  ?

$C$

$$? = C_{n+k-1, k} = \frac{(n+k-1)!}{k!(n-1)!}$$

$$n, k = \frac{n!}{k!} \quad ?$$

**Combinazioni** Dati  $n$  elementi e detto  $k$  un intero positivo minore o uguale a  $n$ , si dice *combinazione semplice* il numero dei raggruppamenti **Calcolo Combinatorio (Italian Edition)** che si possono formare con gli  $n$  elementi presi  $k$  a  $k$  in modo che i raggruppamenti differiscano per almeno uno degli oggetti.

**IN QUESTO CASO CONTA LA QUALITA'**

Dati  $n$  elementi e detto  $k$  un numero intero positivo minore di  $n$ , si dice *combinazione con ripetizione* il numero dei raggruppamenti che si possono formare con gli  $n$  elementi presi  $k$  a  $k$  in modo che i raggruppamenti differiscano per almeno uno degli oggetti, o per la ripetizione, in cui tuttavia lo stesso oggetto può essere ripetuto  $k$  volte

## Calcolo Combinatorio Italian Edition

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