

22-03-2019

1. Possibili sottoinsiemi di $\{1, \dots, 4900\}$ con 6 elementi

$$\frac{4900 \cdot 4899 \cdot 4898 \cdot 4897 \cdot 4896 \cdot 4895}{6!} = 19\,165\,229\,011\,102\,851\,600$$

2. Possibili ... che contengano almeno un pari

TOTALE - SOLO DISPARI

$$\text{SOLO DISPARI} = \frac{2450 \cdot 2449 \cdot 2448 \cdot 2447 \cdot 2446 \cdot 2445}{6!} = 298\,540\,373\,651\,715\,300$$

$$\frac{19\,165\,229\,011\,102\,851\,600 - 298\,540\,373\,651\,715\,300}{18\,866\,688\,637\,451\,136\,300} = P(B)$$

$$3. \frac{298\,540\,373\,651\,715\,300}{19\,165\,229\,011\,102\,851\,600} \cdot \frac{19\,165\,229\,011\,102\,851\,600}{18\,866\,688\,637\,451\,136\,300}$$

$$= \frac{298\,540\,373\,651\,715\,300}{18\,866\,688\,637\,451\,136\,300} \quad P(A|B)$$