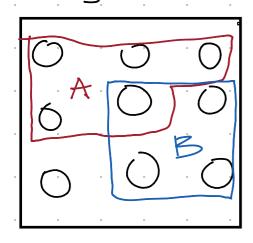
Sample space(S)-npoetpauctbo anementaphix ucxogob. Costine A - nognp-bo S (event). A chyzunocb => costine uz A chyzunocb.



ANBLED and (Soa boshukan)
ANBLED or (ogno us boshukao)
A (complement)

De Morganis laws

(AUB) = ANB

(ANB) = AUB

Example 1

Coin flips:  $(101...10) = (S_1, ..., S_{10}) S_j \in \{0, i\}$   $A_j = \{(1, S_2, ..., S_{10}) : S_j \in \{0, i\} \text{ for } 2 \le j \le 10\}$   $B = \bigcup_{j=1}^{10} A_j - \text{at least one flip was Heads}$   $C = \bigcap_{j=1}^{10} A_j \quad \text{all flips were Heads}$ 

Multiplication rule: AB-two experiments=)compound has ab outcomes

Sampling with replacement:
Sampling with replacement:  Bosopka C nobiopeuusmu.
BEPEN OSBERT U BOSBPANAEM OF POTUO
DOCTORM UZ h OSBEKTOB K POZ.
n.h. => nk ucxosob.
WY WY => VY CX XOGO O.
C'il di
Sampling without replacement. Butopka dez nobropenun.
DOCTARM UZ r OSBEKTOB K OSBEKTOB U LE
bosbpayaem of patilo =>
6036 payaem 05 pat 110 =>" h(n-1)= (n-K+1)
Permutation
Lucio evocosob parcrabuto n objektob.
Uncho enocosob parctabuto n oбъектов.  1,2,, N → (2,3, h, h-3)
Broopka des nobropennà nuzn=>
MI croescob .
· · · · · · · · · · · · · · · · · · ·
Example: Birthday Problem
Kracc UZ K Zerober. Beposituocto, 2100 xota Smy hapm cobnagaet gp.
Beposituocto, 2100 xota Smy hapm cobnagaet gp.
365 guen =>
Butopka e bostopayennem: beero nexogol 365
ECRU ecto croba at least, to crutary beposituocto TOFO
200 hay koro we cobragano =>
$P(eorb   mpa) = 1 - \frac{365 \cdot 364 \cdot (365 - K + 1)}{365 \cdot K}$
365 0.5

