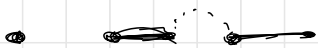
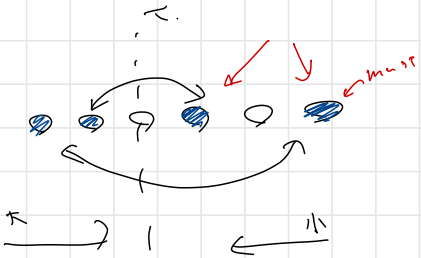
A

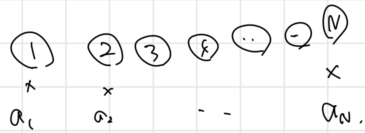


B



s[left] ⟺ (most small & right)

C　K (≤200) の箱。

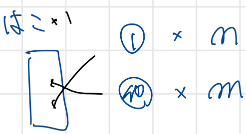


∀箱, ① が過半数。

@ 可能判定。

① … n 個
他 … m 個

~~① ≤ 他 +K のとき, 不可~~



\# ① > 他 の通り数。

① × 1 … 他 0
2 … 他 0 or 1
3 … 0 or 1 or 2
⋮

$\sum \sum^{m<n} = \sum_{n=1}^{m} \frac{n(n+1)}{2}$

${}_mC_1 \times n + {}_mC_2 \times (n-1) +$

K≤200

N=2, K=2

① − K ≥ 他

i) N=1

${}_{N-K+(K-1)}C_N$

N-

$n = \sum_{i=1}^{n} a_i$

${}_nC_{a_1} \times {}_{n-a_1}C_{a_2} \times \cdots$

$\{2, 3, 1\}$

$\to \{1, 2, 1\} + \{1, 1, 0\}$

① ①

200 個のとき

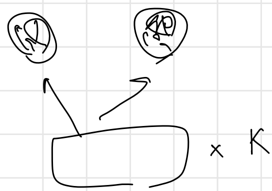
default copy

$one \geq others + k$

満たす $\to \begin{cases} one - x \geq others - y + (k+1) \\ x > y \end{cases}$

$one \geq others + x - y + k + 1 > 0 \quad \because x > y$

$\Rightarrow$ $one \geq others + x + k + 1 > y$



→ ordering

○ ○ ○ ○ ○

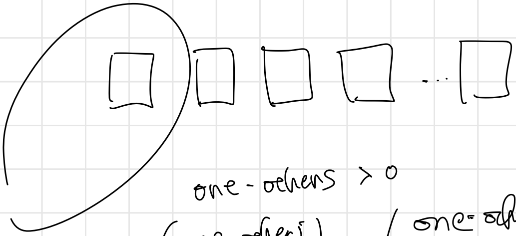
① ① ② ② ③

$\to \frac{5!}{2!2!}$

${}_5C_2 \times {}_3C_2 = \frac{5!}{2!\,2!}$

余る分
→ one - others
= left

left - K
$\binom{left-1}{k-1}$



$one - others > 0$

$(one - others)$ $\binom{one - others - 1}{K - 1}$ ... bare?