

$\sim [1, 2, 3, 4, 5, 6]$

$[2, 3, 4, 5, 6, 7]$

$n=7, k=4$

$\downarrow^S \quad \downarrow^{\downarrow} \quad \downarrow^E$

$[1, 2, 3, 4]$  ③

$\underbrace{\quad\quad\quad}$

$e, s$

$[1, 4, 2, 3]$  ④

$\underbrace{\quad\quad\quad}$

3 2 1

$n, n-1$   
 $[1 \xrightarrow{S} 2 \xrightarrow{S} \dots \xrightarrow{E} n]$

$[1 \ n \ 2 \ n-1 \ 3 \ n-2 \ 4]..$

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$$|K| \rightarrow |K-1|$$

$$K+1 \rightarrow K$$



5.]



$$\begin{bmatrix} 3 & 4 & 5 \\ 3 & 2 & 6 \\ 2 & 2 & 1 \end{bmatrix}$$

$$\begin{bmatrix} 4 & 3 & 2 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$$

Cache



for  $C_i$

for  $C_j$

$C_i, j$