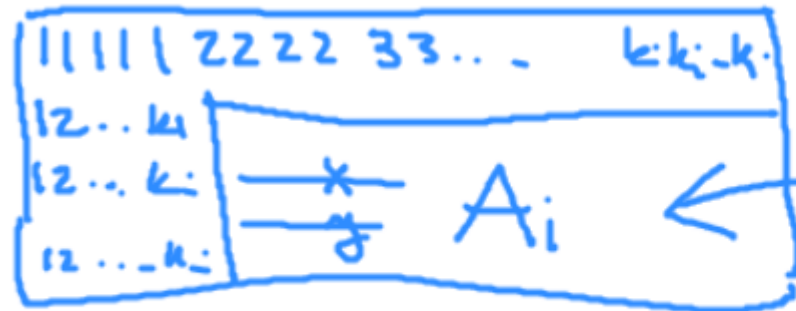


$C+1$



$k^2$

$A_i \in \{1, 2, \dots, k\}$

$x \neq \emptyset$