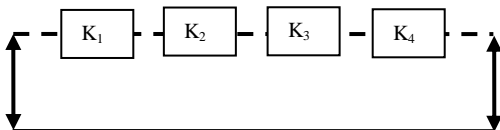
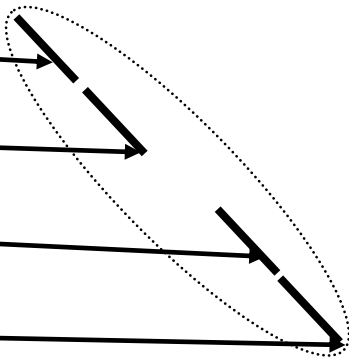


### A. Multi-positional hash table

$K_1$	$I_1$	$o_1$	$I_2$	$o'_1$
$\vdots$				
$K_2$	$I_1$	$o_2$	$I_3$	$o''_1$
$\vdots$				
$K_3$	$I_1$	$o_3$	$I_2$	$o'_2$
$\vdots$				
$K_4$	$I_1$	$o_4$	$I_3$	$o''_2$

### C. Gapped Alignment at k-mer-level



### B. Genomic Window