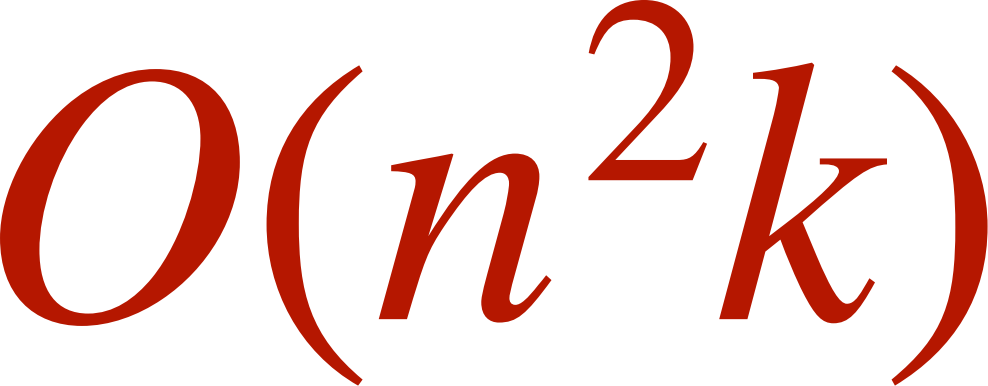

$O(n^2k)$