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Date / /

function $x = f(n)$

$x = 1;$

for $i = 1:n$

for $j = 1:n$

$$\sum_{i=1}^n \sum_{j=1}^{n-1} 1$$

$x = x + 1;$

$$\sum_{i=1}^n \sum_{j=1}^{n-1} = 1$$

$$T(n) = 1 + (n+1) + (n^2+n) + n^2$$

$$T(n) = 2 + 3n + 3n^2$$

The dominant term is n^2 , so runtime is $O(n^2)$.