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function $x = f(n)$
    $x = 1;$
for $i = 1:n$
    for $j = 1:n$

        $x = x+1;$

$$\sum_{i=1}^{n} \sum_{j=1}^{n+1} 1 \qquad \sum_{i=1}^{n} \sum_{j=1}^{n+1} 1$$
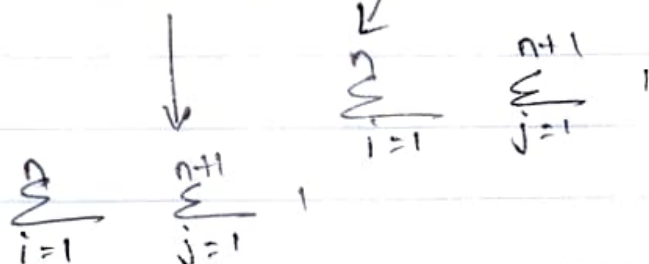
$T(n) = 1 + (n+1) + (n^2+n) + n^2$

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

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