

function $x = f(n)$

$x = 1$

for $i = 1:n$

for $j = 1:n \longrightarrow \sum_{i=1}^n \sum_{j=1}^{n+1} 1$

~~for~~ $x = x + j$

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

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

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

The dominant term is n^2 , so asymptotic is

$$O(n^2)$$