$$T(n) = \sum_{i=0}^{n-1} \sum_{j=0}^{n-1} T_1 + \sum_{k=0}^{n-1} \sum_{i=0}^{n-1} \sum_{j=0}^{n-1} T_2$$

$$\sum_{i=0}^{n-1} \sum_{j=0}^{n-1} T_1 = \sum_{i=0}^{n-1} \big(n \cdot T_1\big) = n \cdot (n\, T_1) = n^2\, T_1$$

$$\sum_{k=0}^{n-1} \sum_{i=0}^{n-1} \sum_{j=0}^{n-1} T_2 = \sum_{k=0}^{n-1} \sum_{i=0}^{n-1} \big(n \cdot T_2\big) = \sum_{k=0}^{n-1} \big(n^2\, T_2\big) = n \cdot (n^2\, T_2) = n^3\, T_2$$

$$T(n) = n^2\, T_1 \; + \; n^3\, T_2$$

Verificación de cotas:

$$\lim_{n\to\infty} \frac{T(n)}{n^3} = \lim_{n\to\infty} \frac{n^2 T_1 + n^3 T_2}{n^3} = \lim_{n\to\infty} \big(T_1\, n^{-1} + T_2\big) = T_2 \quad (>0) \quad \Longrightarrow \quad T(n) \in \Theta(n^3),\ O(n^3),\ \Omega(n^3).$$

$$\lim_{n\to\infty} \frac{T(n)}{n^2} = \lim_{n\to\infty} (T_1 + T_2\, n) = +\infty \quad \Longrightarrow \quad T(n) \notin O(n^2).$$

$$\lim_{n\to\infty} \frac{T(n)}{n^4} = \lim_{n\to\infty} \big(T_1\, n^{-2} + T_2\, n^{-1}\big) = 0 \quad \Longrightarrow \quad T(n) \in o(n^4).$$