W

W

W

$$n^{2}$$
1 n^{2} 1 $+ \sum_{i=1}^{n^{2}} 1 + 2 = 1 + \sum_{i=1}^{n^{2}} 3 + (2n-1)$

$$= 1 + \sum_{i=1}^{n^2-1} 2n - 2$$

From the above we can see that the highest component value be n3, such that the testal norther of the independent nested lags would be:

$$T(n) = \Theta(n^3)$$

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