

Taller

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$i \rightarrow 4$	$j$	$K(i,j)$	Contador
1	2	1, 2	2
	3	1, 2, 3	3
	4	1, 2, 3, 4	4
	5	1, 2, 3, 4, 5	5
2	3	1, 2, 3	3
	4	1, 2, 3, 4	4
	5	1, 2, 3, 4, 5	5
3	4	1, 2, 3, 4	4
	5	1, 2, 3, 4, 5	5
4	5	1, 2, 3, 4, 5	5

40 //

día      mes      año

/ /

Representación:

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

$$= \sum_{i=1}^{n-1} \left( \sum_{j=i+1}^n j \right)$$

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

$$T(n) = \sum_{i=1}^{n-1} \left( \frac{n(n+1)}{2} - \frac{i(i+1)}{2} \right)$$

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

$$T(n) = (n-1) \cdot \frac{n(n+1)}{2} - \frac{1}{2} \sum_{i=1}^{n-1} i(i+1)$$

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

$$T(n) = (n-1) \cdot \frac{n(n+1)}{2} - \frac{1}{2} \cdot \frac{(n-1)n(n+1)}{3}$$

$$T(n) = \frac{(n-1)n(n+1)}{2} \left( 1 - \frac{1}{3} \right)$$

$$T(n) = \frac{(n-1)n(n+1)}{2} \cdot \frac{2}{3} = \frac{(n-1)n(n+1)}{3}$$

$$T(n) = \frac{(n-1)n(n+1)}{3} = \frac{(5-1)(5)(5+1)}{3} = \frac{(4)(5)(6)}{3} = \frac{120}{3} = 40 //$$

DECIDE  
hacerlo

"Apuesta por grandes ideales. Hay que ser valiente para ir contra corriente" Papa Francisco.