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

$$\Rightarrow 2n^2 = n^2 + n + (n-1)^2 + (n-1)$$

$$\Rightarrow n^2 = n + (n-1)^2 + (n-1) = (n-1)^2 + 2n - 1$$

dm1(k):

square(n):