$$= (5) + 3\left(\frac{\left(\frac{n-2}{2}\right)\left(\frac{n}{2}\right)}{2}\right)$$

$$= 5 + 3\left(\frac{\left(\frac{n^2-2n}{4}\right)}{2}\right)$$

$$= 5 + 3\left(\frac{n^2-2n}{8}\right)$$

$$= 5 + \left(\frac{3n^2-6n}{8}\right)$$

• The highest component above is n^2, such that the runtime complexity of $T(n)$ is:

$$\underline{T(n) = \Theta(n^2)}$$