$$T(n) = S T(\frac{n}{2}) + n^{2}$$

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

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

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

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

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

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