

$$S = \sum_{i=0}^n (3+i) = \sum_{i=0}^n 3 + \sum_{i=0}^n i \rightarrow 3 \sum_{i=0}^n 1 + \sum_{i=0}^n i \rightarrow 3 \cdot (n+1) + \frac{n^2+n}{2}$$

$$S_n = \frac{6(n+1)}{2} + \frac{n^2+n}{2} \rightarrow \frac{6n+6}{2} + \frac{n^2+n}{2} = \frac{n^2+7n+6}{2}$$

$$S_n = \frac{n^2+7n+6}{2} = \frac{0^2+7 \cdot 0+6}{2} = \boxed{3}$$

$$S_n = S_{n-1} + a_n \rightarrow S_{n-1} = \frac{(n-1)^2+7(n-1)+6}{2} + (3+n) \rightarrow$$

$$\frac{(n-1)^2+7(n-1)+6}{2} + 2(3+n) = \frac{n^2-n+1}{2} + \frac{7n-7+6+6+2n}{2} = \frac{n^2+7n+6}{2}$$

IMPORTANTE: