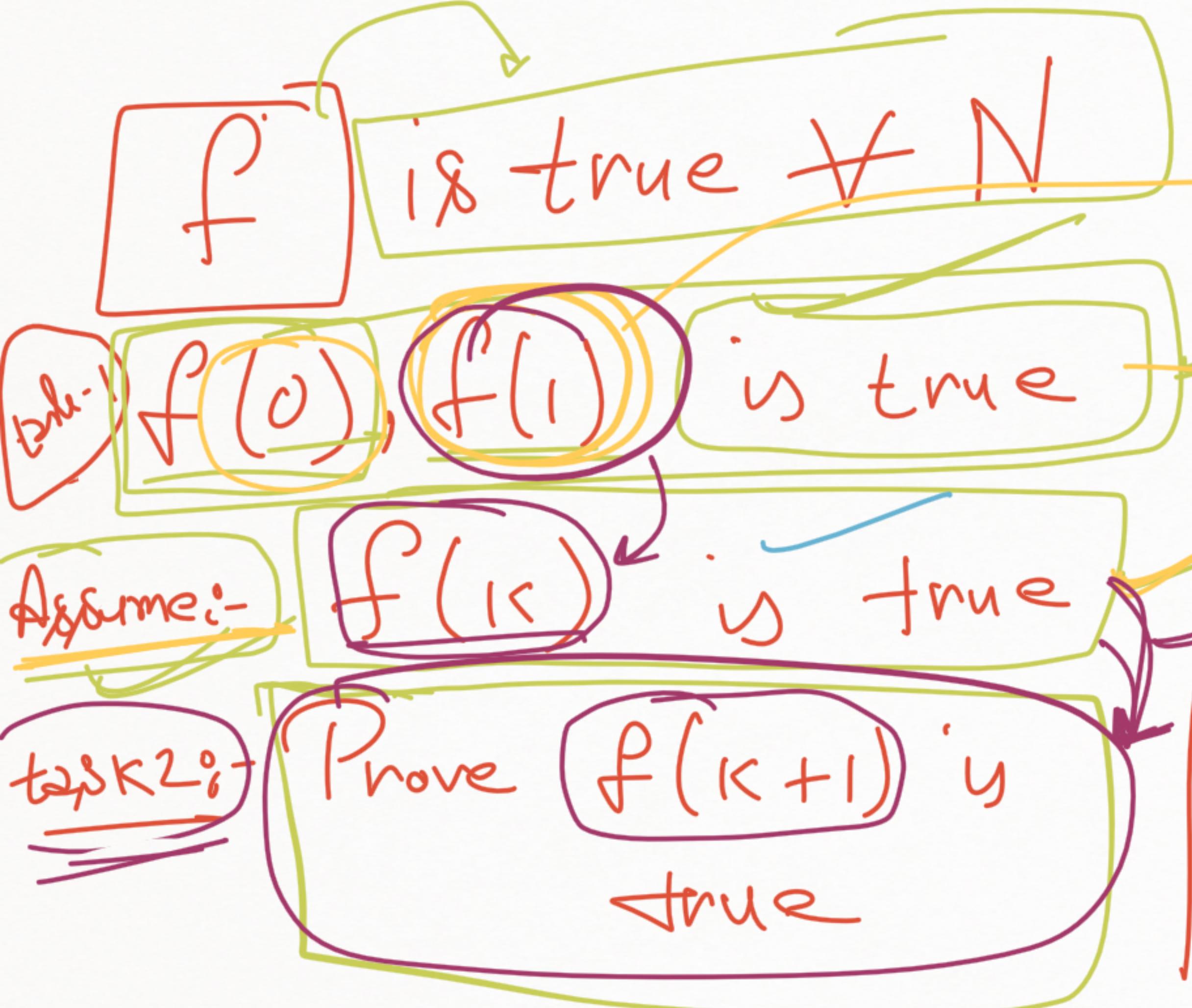


PMI :-



$$\sum n = \frac{n(n+1)}{2}$$
$$\sum 1 = 1$$
$$1 * (1+1) / 2 = 1$$
$$\sum k = \frac{k(k-1)}{2}$$
$$\sum k+1 = \frac{(k+1)(k+1+1)}{2}$$

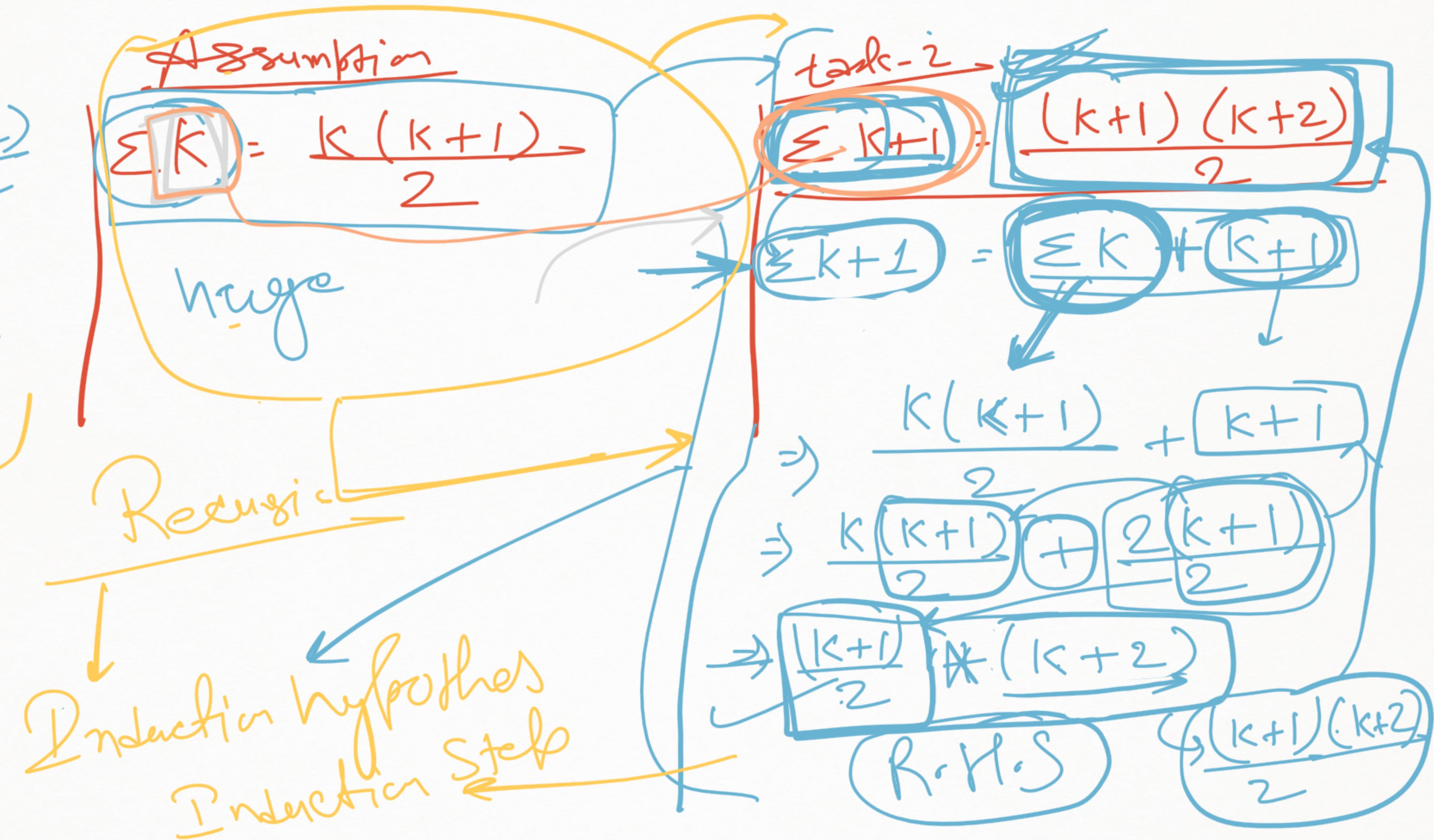
L.H.S = R.H.S

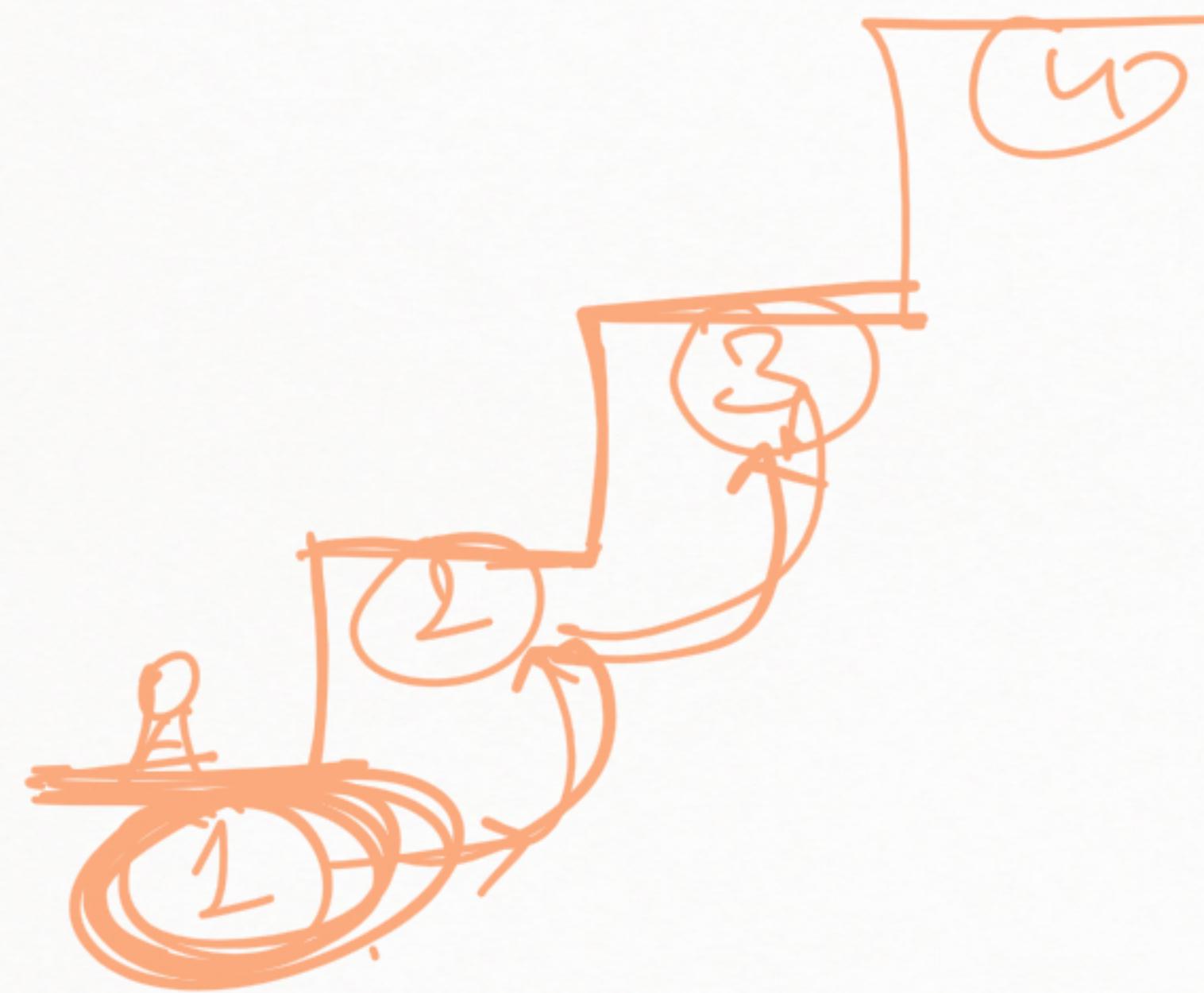
$$\sum I = \frac{1(2)}{2}$$

Sample
Size

n₀

Base Case

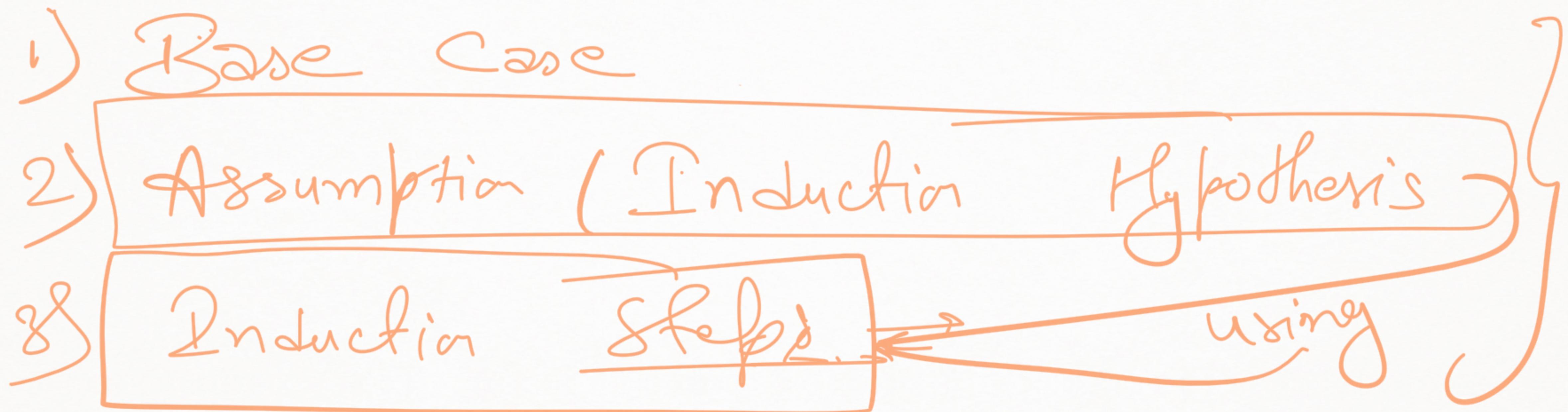




$$\sum k = \sum k + 1 = \sum k + 2$$

So on

$$x N$$



$$k \rightarrow \boxed{k+1}$$

- what will be my base case
 - what is my hypothesis
 - 2nd what is the induction step i'm going to take care of.
-

