k will represent the number of levels.

For each lovel of k, hello will be printed 2 times.

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$$\sum_{i=0}^{\log_2 n} 2^i \quad \text{Geometric series}$$

$$= \frac{1-2}{1-2} \frac{\log_2 n+1}{1-2}$$

$$= \frac{1-(2^{\log_2 n})(2)}{-1}$$

$$= \underbrace{1 - (2n)}_{-1}$$

$$=2n-1$$

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