

Hallando  $M$

$$\text{aux} \leftarrow \text{suma}$$

Para un  $K$

$$K=1 \quad \text{aux}_1 \leftarrow \frac{\text{suma}}{2^1}$$

$$K=2 \quad \text{aux}_2 \leftarrow \frac{\text{suma}}{2^2}$$

$\vdots$

$$K=K \quad \text{aux}_K \leftarrow \frac{\text{suma}}{2^K}$$

$$M = \log(\text{suma})$$

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$$\text{aux} \leftarrow \frac{\text{suma}}{2^K} \geq 1$$

$$\text{suma} \geq 2^K$$

$$\log_2 \text{suma} \geq \log_2 2^K$$

$$\log_2 \text{suma} \geq \underbrace{K}_M$$