







The name comes from the substitution of the guessed answer for the function (solution) when the induction hypothesis is applied for smaller values (in the induction proof).

This can be used to establish lower or upper bounds.











 $T(n) = T(\lfloor n/2 \rfloor) + T(\lceil n/2 \rceil) + 1$ Guess? O(n) but induction with $T(n) \leq cn-b$. $T(n) \le c(\lfloor n/2 \rfloor) - b + c(\lfloor n/2 \rfloor) - b + 1$ $\leq cn - b$ for $b \leq 1$ 24-10-06 AA1 10















Understand what this recurrence means.















