

$$f(n) = \theta(g(n)) \iff f(n) = \Omega(g(n))$$

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$$f(n) = O(g(n))$$

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$$\Rightarrow \exists N_0, C_2, f(n) \leq C_2 g(n) \not\vdash n \geq n_0$$

$$f(n) = \Omega(g(n))$$

$$\Leftrightarrow f(n) = \Omega(g(n))$$

= $\exists n_1, C_1, f_n \geq c_1 \underbrace{\exists (n)}_{\forall n \geq n_1}$ N2 = max (no, n,)