











Three common cases (cont.)

Compare f(n) with $n^{\log_b a}$:

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- 3. $f(n) = \Omega(n^{\log_b a + \varepsilon})$ for some constant $\varepsilon > 0$.
 - f(n) grows polynomially faster than $n^{\log_b a}$ (by an n^{ε} factor),

and f(n) satisfies the *regularity condition* that $af(n/b) \le cf(n)$ for some constant c < 1.

Solution: $T(n) = \Theta(f(n))$.







