

## Three common cases

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

- 1.  $f(n) = O(n^{\log_b a \varepsilon})$  for some constant  $\varepsilon > 0$ .
  - f(n) grows polynomially slower than  $n^{\log_b a}$  (by an  $n^{\epsilon}$  factor).

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Solution: T(n) = \Theta(n^{\log_b a}).
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