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## Direct Way to Find to Find and Compane Growths O Ignore Lower Order Terms O Ignore Leading Term Constant

Examples: 
$$f(n) = 2n^2 + n + 6$$
, Order of Growth:  $n^2$  (Quadratic)  $g(n) = 100n + 3$ , Order of Growth:  $n$  (Linuxy)

How do we compare terms? 
$$C < log log n < log n < n^{1/3} < n^{1/2} < n$$

$$< n^{2} < n^{3} < n^{4} < 2^{n} < n^{n}$$