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CSCI 264-01
Homework 1
HW1 Problem 1 Writeup
Least Growth --> Most Growth
(Imagine there is a <= sign between each line. Items on the same line are
equivalence classes.)
n^{(-2)}, n^{(1/\log(n))}, (1/2)^n
7, 123456789
log(log(n))
log(n^3), log4(n), log n
(\log(n))^2
sqrt(n), n^{(1/2)}
n^(3/4)
n + 5
n^(4/3)
n log(n)
3^{\log(n)}
n^2, n^2 + (10^{100})(n)(\log(n)), 4^\log(n)
      Notes: 4 \log(n) = 4 (\log 4(n) / \log 4(2)) = (4 \log 4(n)) (1 / \log 4(2)) =
n^{(1/\log 4(2))} = n^2
(n^2)\log(n)
n^4
log(n)^log(n), n^log(log(n))
2^n, n2^n
4^n, 4^(n-1)
4^(2n)
n!
n^n
4^(n^2)
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