Problem 2.1 on Page 64:

Order the following functions by growth rate: $N, \sqrt{N}, N^{1.5}, N^2, N \log N, N \log \log N, N \log^2 N, N \log(N^2), 2/N, 2^N, 2^{N/2}, 37, N^2 \log N, N^3$. Indicate which functions grow at the same rate.

Note: we say that functions f(N) and g(N) grow at the same rate if both f(N) = O(g(N)) and g(N) = O(f(N)).

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