Convex Hull

Lower Bound

- Transitivity

θ1-F-θ3

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❖ Suppose that A $\leq_N$ B

if A has a lower bound of $\boxed{g(n) = \omega(n)}$

then g(n) is also a lower bound for B

Input of A ──$O(n)$──▶ Input of B

Worst-case optimal algorithm
$T(n) = \omega(n)$

Any algorithm

Output of A ◀──$O(n)$── Output of B