Algorithm Complexity Comparison (Time vs. Space, Per 1 Element, Arbitrary Size Integers) $n^2 \cdot \log(n)$ **Complexity Groups** $T_{2,1}, T_{2,2}, T_{2,7}, T_{n,1}$: $(O(\log(n)^2 \cdot \log(\log(n))), O(\log(n)))$ n^2 $T_{2,4}$: $(O(\log(n)^2), O(\log(n)))$ $T_{2,5d}$: $(O(n \cdot \log(n) \cdot \log(\log(n))), O(n \cdot \log(n)))$ $T_{2,6}$: $(O(n \cdot \log(n)^2), O(\log(n)))$ $T_{2,8}, T_{2,9}, T_{2,10}$: (O(n), O(n))Space Complexity (Big-O) - Log Scale $T_{2,13}$: $(O(\log(n)), O(\log(n)))$ $T_{2, 15s}$: $(O(n), O(n \cdot \log(n)))$ $T_{2,15p}$: $(O(n \cdot \log(n) \cdot \log(\log(n))), O(\log(n)))$ $T_{2,21}$: $(O(n), O(\log(n)))$ $n \cdot \log(n)^2$ $T_{n,3}$: $(O(n \cdot \log(n)), O(\log(n)))$ $n \cdot \log(n)$ n log(n)

Time Complexity (Big-O) - Log Scale