

Notation

Tuesday, 3 October 2023

15:34

$$O(\text{SCAN}(n)) = O\left(\frac{n}{B}\right)$$

$$\text{SORT}(n) = \frac{n}{B} \log_{M/B} \left(\frac{n}{B}\right)$$

total running time = # base cases \cdot time to process a base case + total overhead