Assignment 07

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1

$1 < \log_3 9$, so $T(n)$ in this case would be $O(n^{\log_3 9}) = O(n^2)$.

2

$1 = \log_3 3$, so $T(n)$ in this case would be $O(n^1 \log n)$.

3

$3 > \log_4 5$, so $O(n^3)$.

4

$1 > \log_3 2$, so $O(n^1)$.

5

$2 = \log_4 16$, so $O(n^2 \log n)$.

6

$0 < \log_3 1$, so $O(n^0 \log n)$