Master Theorem

1/1 point (100%)

Quiz, 1 question

✓ Congratulations! You passed!

Next Item



1/1 points

1.

Mark **all** the correct statements.

Correct

Yes, $T(n) = O(\log n)$: this is the running time of the binary search algorithm and a recurrence relation it satisfies.

Un-selected is correct

Correct

Yes, $T(n)=O(n^4)$: from the Master theorem, we know that T(n) grows no faster than $n^{\log_2 8}=n^3$. At the same time, n^3 grows slower than n^4 and hence $T(n)=O(n^3)$ and $T(n)=O(n^4)$.







Master Theorem

1/1 point (100%)

Quiz, 1 question