

## HW 2.1 Answers

### Data Structures & Algorithms

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1.

Number of steps	Complexity order (big O)
$(n^2 + 1) / (n^2)$	1
$(n+2)^3 + 2^n$	$2^n$
$(\log(4))^n + n \cdot \log(n)$	$n \log n$

2. Determine the complexity order

- a.  $\log n$
- b.  $n \log n$
- c.  $n^3$
- d.  $n^2$