

## CSE 332: Data Structures and Parallelism

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### QuickCheck: Asymptotics Solutions (due Thursday, October 6)

#### 0. $\mathcal{O}$ boy!

For each of the following rows, circle each option on the right that is true for the function on the left and X each option that is false for the function on the left.

$n^2$	<del><math>\mathcal{O}(n)</math></del>	$\Omega(n^2)$	$\mathcal{O}(n^n)$	<del><math>\mathcal{O}(n^3)</math></del>
$2n + n \log n$	<del><math>\mathcal{O}(n)</math></del>	$\mathcal{O}(n \log n)$	<del><math>\mathcal{O}(n^2)</math></del>	<del><math>\mathcal{O}(n)</math></del>
$\log(3^n)$	<del><math>\mathcal{O}(n)</math></del>	$\mathcal{O}(n)$	$\Omega(\log n)$	$\mathcal{O}(2^n)$
$\log(n^3)$	$\mathcal{O}(\log n)$	<del><math>\mathcal{O}(n)</math></del>	$\Omega(\log n)$	<del><math>\mathcal{O}(n^3)</math></del>