

$$\begin{aligned}
 \text{Count} &= 5 & \text{Count} &= 5 \text{ with extended S.H.S.S.} \\
 \text{Count} &= 5+3 & \text{Count} &= 5+3 \text{ and problem} \\
 \text{Count} &= 8+3 & \text{Count} &= 5+2(3) \\
 \text{Count} &= 11+3 & \text{Count} &= 5+3(3) \\
 \text{Count} &= 14+3 & \text{Count} &= 5+4(3) \quad (\text{No}) \\
 \dots & & \text{Count} &= 5+4(3) \\
 & & \lceil \frac{\text{Count}-5}{3} \rceil & = 4
 \end{aligned}$$

22.4.1 Put the following growth functions

in order: $\frac{5n^3}{4032}, 44\log(n), 10n\log(n), 500, 2n^2, n$

$\frac{2^n}{45}, 3n$

500	500	500
$2n$	$44\log(n)$	$44\log(n)$
4	$10n\log(n)$	$3n$
$2n^2$		$10n\log(n)$
$\frac{5n^3}{4032}$		$2n^2$
		$\frac{5n^3}{4032}$

$\frac{2^n}{45}$

$$\frac{2^n}{45}$$

$\frac{2^n}{45}$

(f_n) $\approx 2^n$