	Question 3:
	$T_{A}=4T_{A}\left(\frac{n}{2}\right)+n^{2}$, $T_{B}(n)=XT_{B}\left(\frac{n}{u}\right)+n^{2}$
	first we solve the time complexity of $T_A(n)$. 8-7, b-2, K-log, $T \approx 2.81$, $f(n) = n^2$. we can apply the first case of master's thm for $E \cong 0.81 \times 0$; $f(n)$ is $O(n \log_2 T - E) = O(n^2)$. =) $T_{Ah} \cong O(n^2 \log_2 T) = O(n^2 \log_2 T)$.
	we can apply the first case of master's thm.
	$= \sum_{n=1}^{\infty} \sum_{n=1}^{\infty} C(n) \sum_{n=1}$
	To find the largest of far To that is assymptically forter
	we set the value equal to each other, we salve a
	we set the value equal to each other, we salve a then we deduct I from a. KA = log +2 = log + a'
	7 19 110
	hence The algorith Bruns or symptercally forster than. TA for X \leq 48.
•	TA for X < 48.
n e	
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