by Master Theorem

$$C = \log_b a \quad \sharp + a = 3, b = 2, \sharp \& c = \log_2 3$$

$$X = \int_{\{n\}} = n^2 \quad \sharp = \int_{\{n\}} \int_$$

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2 (a) 
$$N^{2}+3n+1 \in O(n^{2})$$
 $\frac{1}{12} \frac{1}{12} \frac{1}{12} \frac{1}{12} \frac{1}{12} = 0$ 
 $\frac{1}{12} \frac{1}{12} \frac{1}{$ 

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Fin	leg K tulog K	$\Rightarrow \frac{n}{k} \log \frac{n}{k}$	$=\frac{n}{k}(\log n - \log k)$
	n k		ED (nlogn)
£ 4	log ni e O (nlo	# # #	K71 ½ constant
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