4	The <i>n</i> th term of an arithmetic series is u_n where	
	$u_n = (n+1)\ln 4$	
	Given that the sum of the first n terms of the series is S_n	
	show that $S_n = \ln 2^{(n^2 + an)}$ where a is an integer whose value is to be found.	
		(5)

