0	Within Statistical mechanics, using the microcanonica
	ensemble, the temperature is defined through
	$\frac{1}{T} = \left(\frac{\partial S(E,V,N)}{\partial E}\right)_{V,N} = \frac{\partial}{\partial E} \left(\log(T(E,V,N))\right)_{V,N}$
	This definition can be used for systems of any size (it does not require N->60 or large N)
	size (it does not require N->60 or large N)
•	Stirling approximation: log (N!) = Nlog N - N
	For a two-level system consisting of N
	distinguishable particles the number of microsta
	7 (E,N) = $\frac{N!}{N_{\text{ex}}! (N-N_{\text{ex}})!}$
	where Nex is the number of particles in the
	excited state.
	The calculation for the two-level system yield
&T/E	1 2 6 0 (M )