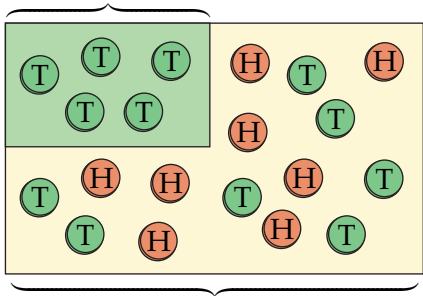


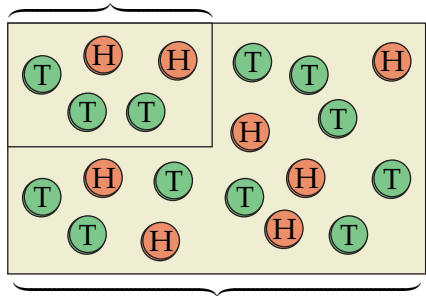
(a) subsystem s : $E = 0, S(E) = 0$



thermal bath \tilde{s} : $\tilde{E} = 8, \tilde{S}(\tilde{E}) = 8.77$

total (s, \tilde{s}) : $E_T = 8, S(E) + \tilde{S}(\tilde{E}) = 8.77$

(b) subsystem s : $E = 2, S(E) = 2.30$



thermal bath \tilde{s} : $\tilde{E} = 6, \tilde{S}(\tilde{E}) = 8.52$

total (s, \tilde{s}) : $E_T = 8, S(E) + \tilde{S}(\tilde{E}) = 10.82$

thermalization
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