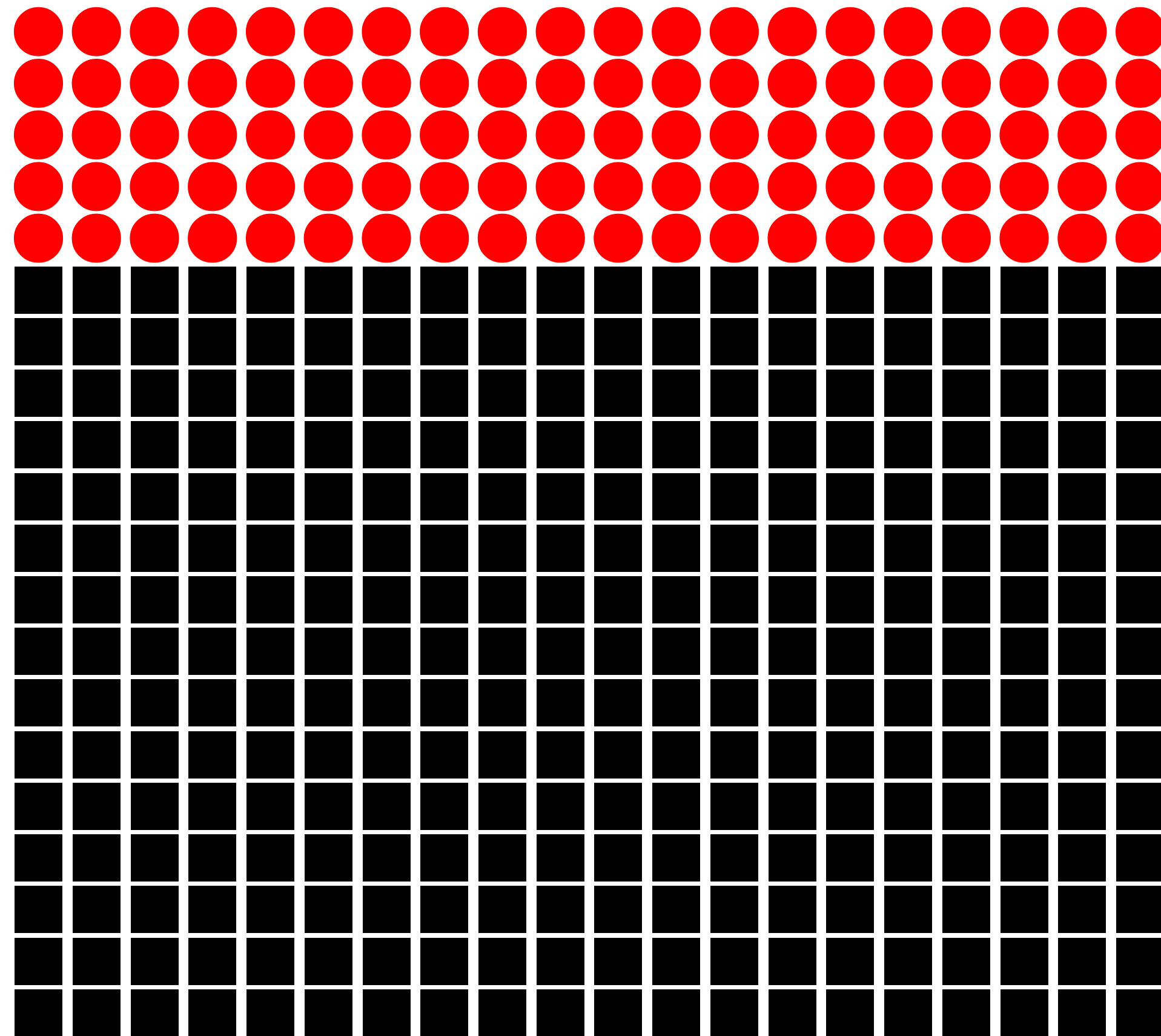
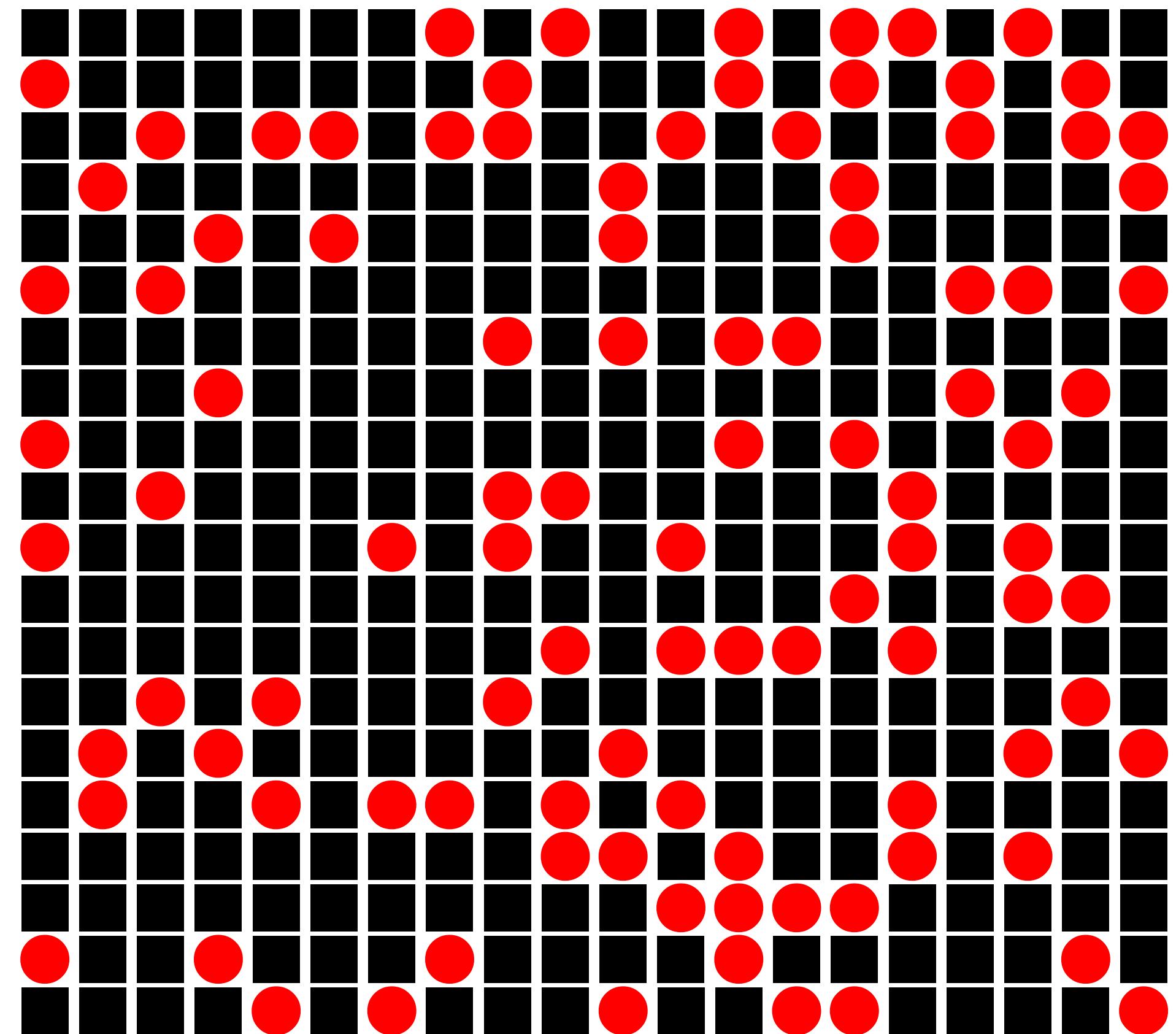


Ordered versus typical state: e^{225} states in total

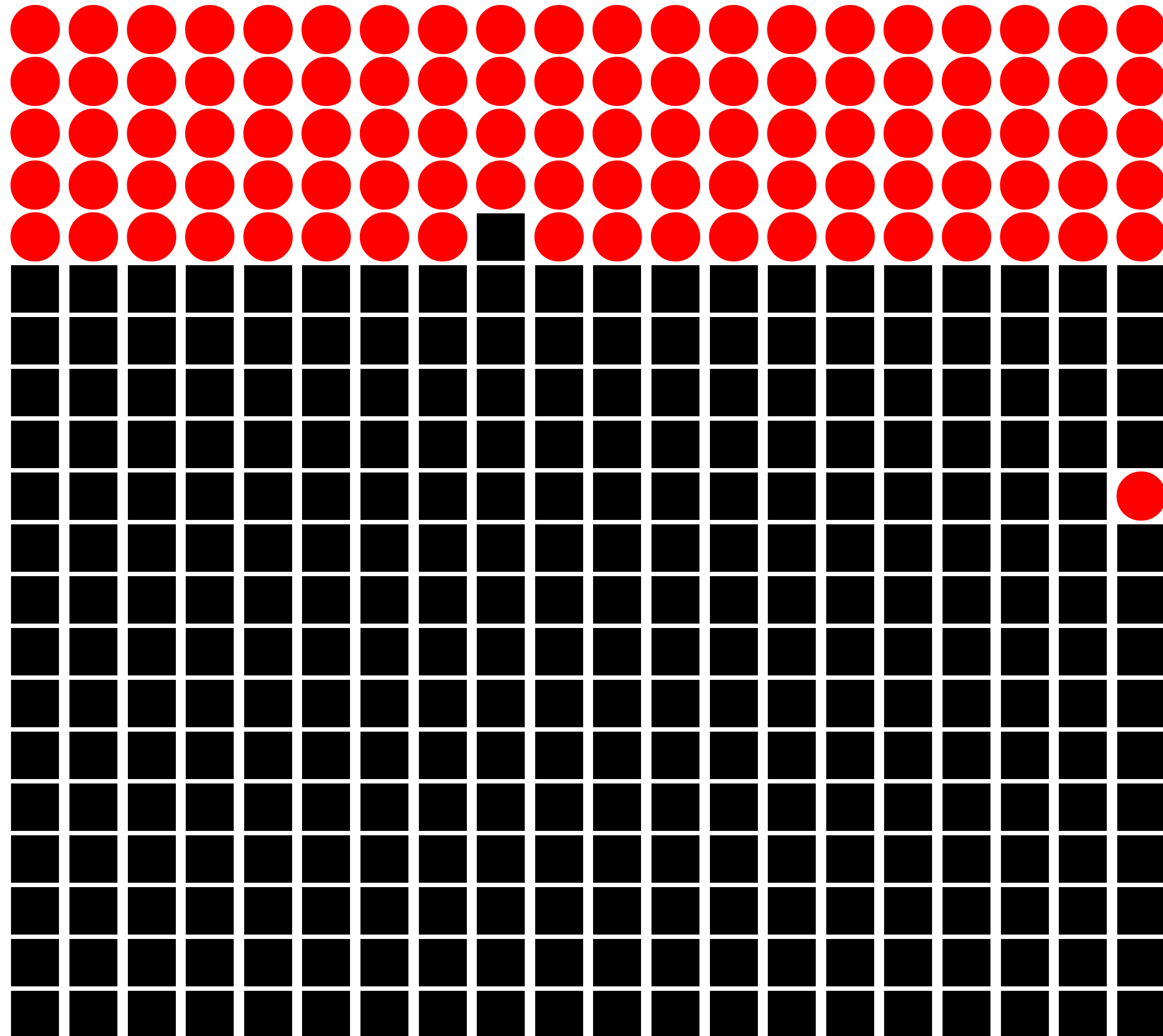


Ordered state: 400 atoms, $1/4$
are excited, $E = 100 \Delta$



a typical state: the
energy is still, $E = 100 \Delta$

Possible states after one “hop”



The system can now be in one of 30,000 micro states.