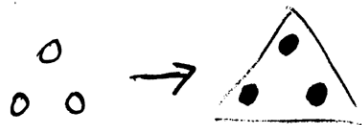
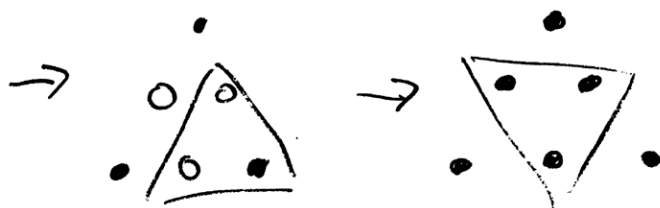
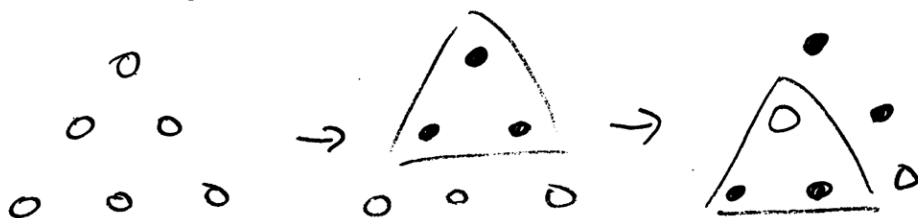


Let the following sequence of moves be sequence (a).



Let the following sequence of moves be sequence (b).



Examine n by its remainder mod 3. Either $n \equiv 1 \pmod{3}$, $n \equiv 2 \pmod{3}$, or $n \equiv 0 \pmod{3}$. Consider these one at a time.

Case 1: $n \equiv 1 \pmod{3}$

Label each light with either A, B, or C. as follows:

