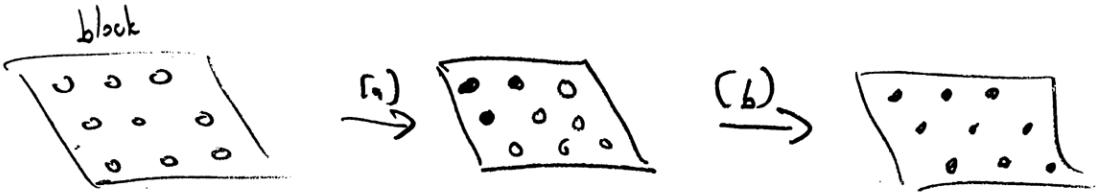
Use (a) and (b) to light up each block




This perfectly lights up all remaining lights.

Because $n=2$ works, and if $n=3k+2$ works then $n=3k+5$ works, all $n \equiv 2 \pmod 3$ work for $n \in \mathbb{Z}^+$, by induction.

Case #3: $n \equiv 0 \pmod 3$

As in case #2, we use a base case, but with $n=3$.


Assume $n=3k$ works, we will show $n=3k+3$ works, with $k \in \mathbb{Z}^+$.