















on first proof (by contradiction)

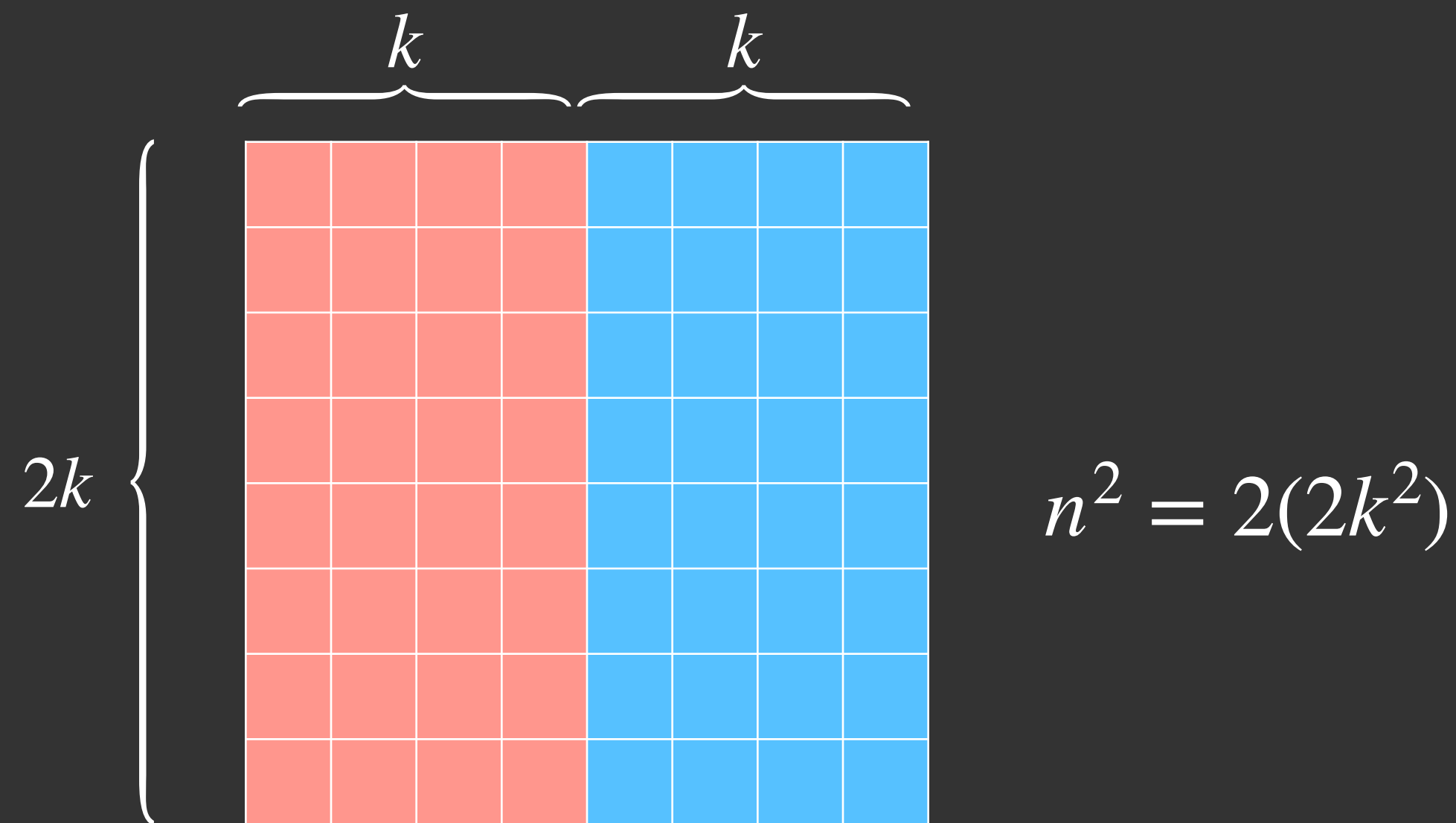
# our first proof (by construction)

## Theorem

For all integers  $n$ , if  $n$  is even, then  $n^2$  is even.



- If possible, it's helpful to draw some pics



# our first proof (by construction)

## Theorem

For all integers  $n$ , if  $n$  is even, then  $n^2$  is even.

