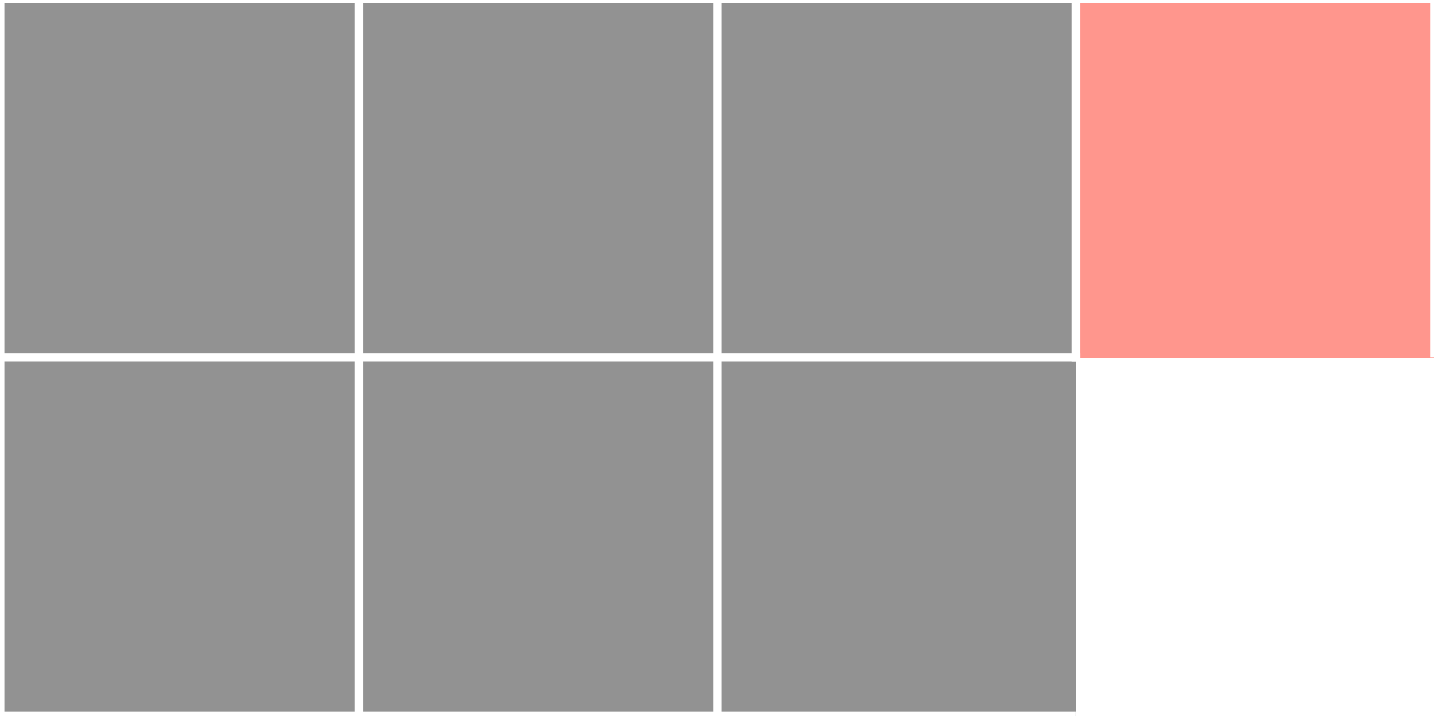
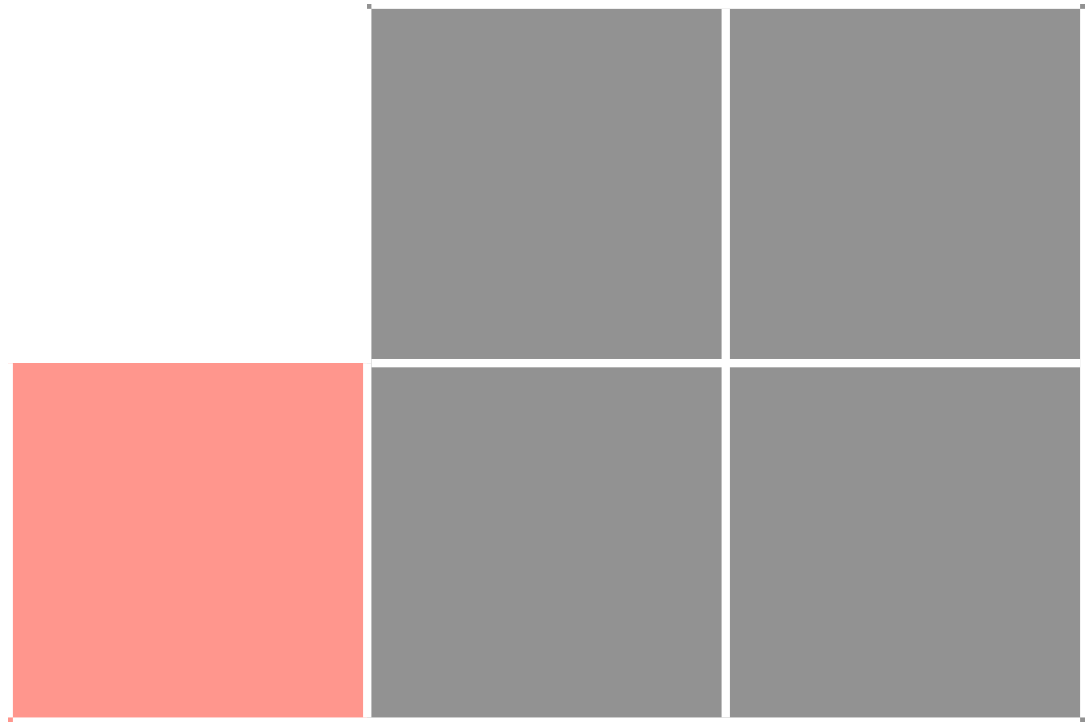

PROVE IT

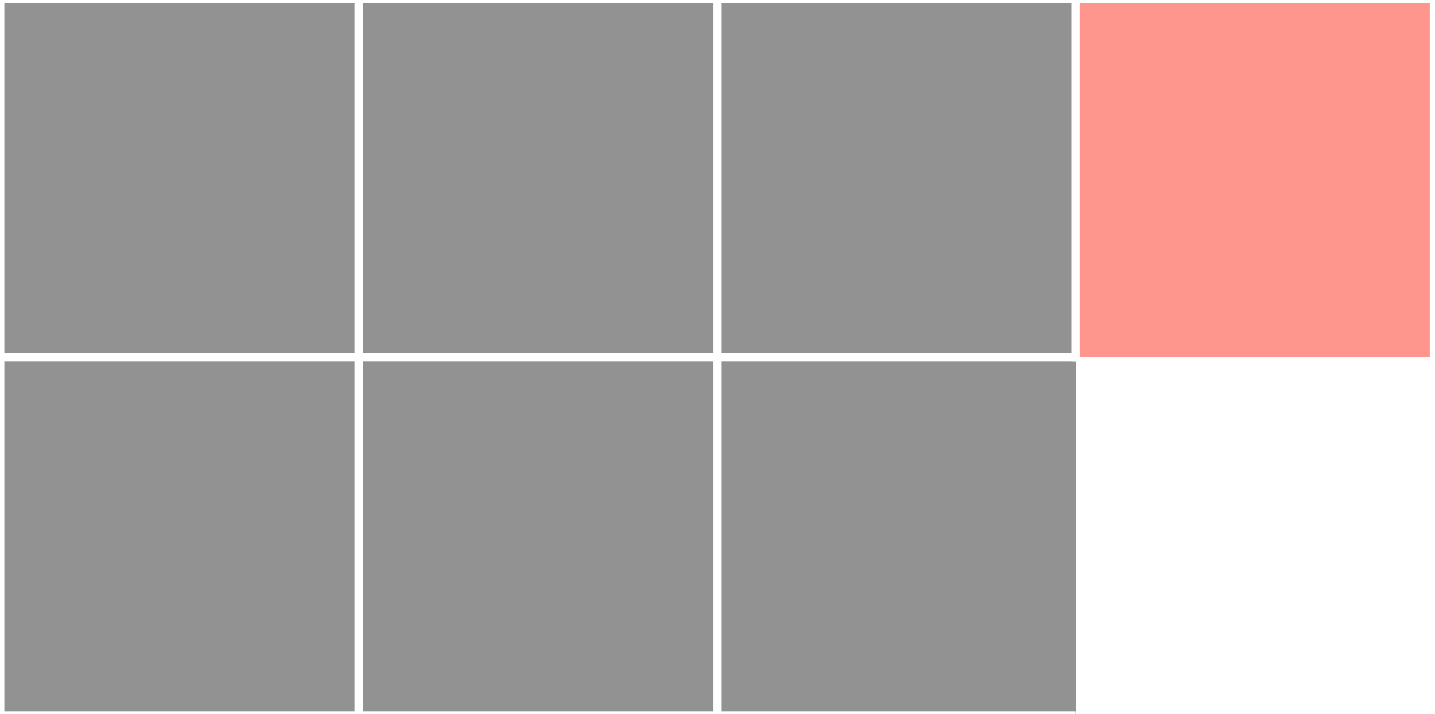




even

exercise 3: finish writing this proof by yourself

let's try another

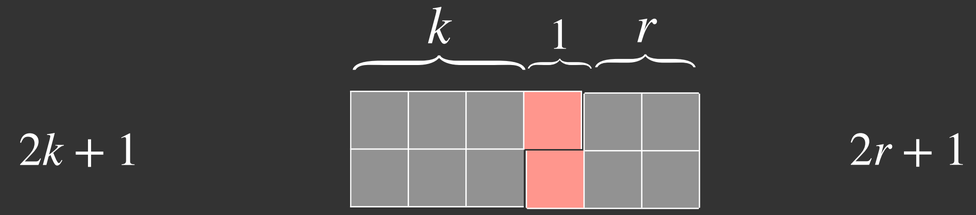


let's try another

Theorem

For all integers m and n, if m and n are odd, then $m+n$ is even.

- Visual intuition



$$(2k+1)+(2r+1)=2(k+r+1)$$
$$m \quad + \quad n \quad = 2(\quad s \quad)$$

- an integer n is called **even** if there is an integer k where $n = 2k$

exercise 3: finish writing this proof by yourself

the principle of mathematical induction

everybody do the wave!