## A Tiny Example

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Suppose we have an (infinite) collection of sets  $\mathcal{F}$ . We define a shatter function  $\pi_{\mathcal{F}}(n)$ 

$$\pi_{\mathcal{F}}(n) = \max\{\# \text{ of atoms in boolean algebra generated by } S$$
 
$$\mid S \subset \mathcal{F} \text{ with } |S| = n\}$$

