A Tiny Example

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Suppose we have an infinite collection of sets $\mathcal{F}$. Take n many of those sets. They generate a boolean algebra. Count the number of atoms in it. There can be at most 2^n atoms, though depending on the collection there may be much less. For a given n, out of all choices of n sets, record the highest possible number of atoms generated. We define that to be a shatter function.

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