





















set building done right	
So $\{x: x \not\in x\}$ isn't a well-defined set. What went wrong?	
The trouble is with the variable, x. It can literally stand for anything.	
(And "anything" appears to include things that aren't sets.)	
When using set builder notation, make sure the variables are limited to elements of a set you already know to be well-defined.	
$\{n: n \in \mathbb{N}^+, n \text{ is prime}\}$ $\{2n: n \in \mathbb{N}^+\}$	
$\{n\in\mathbb{N}^+: n ext{ is prime}\}$ NB: This form also automatically implies a superset!	
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