

Definition 4.58. [018] (Solved on 2022-10-27) Let $P(n)$ be a logical clause that depends on a free variable $n \in \mathbb{N}$. We will say that

$P(n)$ holds eventually in n if	$\exists m \in \mathbb{N}, \forall n \in \mathbb{N}$ with $n \geq m$, $P(n)$ holds ;
$P(n)$ frequently holds in n if	$\forall m \in \mathbb{N}, \exists n \in \mathbb{N}$ with $n \geq m$ for which $P(n)$ holds.