## Pluto Math

Pluto's inhabitants use the same mathematical operators that we do (+, -, etc.). They also use an operator, @, that we do not know. The following are true for any real numbers $x$ and $y$ :

$$
\begin{gathered}
x @ 0=x \\
x @ y=y @ x \\
(x+1) @ y=(x @ y)+y+1
\end{gathered}
$$

What is the value of $12 @ 5 ?$

