

RPN calculator kata

An RPN calculator program computes expressions written in RPN (Reverse Polish Notation).

An RPN expression (or a postfix expression) is one of the following:

- a number X , in which case the value of the expression is that of X ;
- a sequence of the form $E1\ E2\ O$, where $E1$ and $E2$ are postfix expressions and O is an arithmetic operation; in this case, the value of the expression is that of $E1\ O\ E2$.

The following are RPN expressions:

$20\ 5\ /\$	$\Rightarrow (20/5)$	$= 4$
$4\ 2\ +\ 3\ -$	$\Rightarrow (4+2)-3$	$= 3$
$3\ 5\ 8\ *\ 7\ +\ *$	$\Rightarrow 3*((5*8)+7)$	$= 141$

Suggested scenarios

- Given a RpnCalculator when a digit is sent it should display the same digit
- Given a RpnCalculator when some digits are sent it should display the number formed by those digits
- Given a RpnCalculator when an enter is sent between two numbers it should display the numbers separated by a newline
- Given a RpnCalculator when an operation ($*$ $+$ $/$ $-$) is sent after two numbers it should display the result of that operation