

## 5.332 remainder

	DESCRIPTION	LINKS
<b>Origin</b>	Arithmetic.	
<b>Constraint</b>	<code>remainder(Q, D, R)</code>	
<b>Synonyms</b>	<code>modulo</code> , <code>mod</code> .	
<b>Arguments</b>	<code>Q</code> : <code>dvar</code> <code>D</code> : <code>dvar</code> <code>R</code> : <code>dvar</code>	
<b>Restrictions</b>	$Q \geq 0$ $D > 0$ $R \geq 0$ $R < D$	
<b>Purpose</b>	Enforce R to be equal to the remainder of the division of Q by D.	
<b>Example</b>	<code>(15, 2, 1)</code>	
	The <code>remainder</code> constraint holds since 1 is the rest of the division of 15 by 2.	
<b>Arg. properties</b>	<b>Functional dependency</b> : R determined by Q and D.	
<b>Keywords</b>	<b>constraint arguments</b> : ternary constraint, pure functional dependency. <b>constraint type</b> : predefined constraint, arithmetic constraint. <b>modelling</b> : functional dependency.	

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