

5.184 incomparable

	DESCRIPTION	LINKS
Origin	Inspired by incomparable rectangles.	
Constraint	<code>incomparable(VECTOR1, VECTOR2)</code>	
Synonym	<code>incomparables</code> .	
Arguments	VECTOR1 : <code>collection</code> (var-dvar) VECTOR2 : <code>collection</code> (var-dvar)	
Restrictions	<code>required</code> (VECTOR1, var) <code>required</code> (VECTOR2, var) $ \text{VECTOR1} \geq 1$ $ \text{VECTOR2} \geq 1$ $ \text{VECTOR1} = \text{VECTOR2} $	
Purpose	Enforce that when the components of VECTOR1 and VECTOR2 are ordered, and respectively denoted by SVECTOR1 and SVECTOR2, we neither have $\text{SVECTOR1}[i].\text{var} \leq \text{SVECTOR2}[i].\text{var}$ (for all $i \in [1, \text{SVECTOR1}]$) nor have $\text{SVECTOR2}[i].\text{var} \leq \text{SVECTOR1}[i].\text{var}$ (for all $i \in [1, \text{SVECTOR1}]$).	
Example	$((16, 2), (4, 11))$	
	The <code>incomparable</code> constraint holds since $16 > 4$ and $2 < 11$.	
Typical	$ \text{VECTOR1} > 1$	
Symmetries	<ul style="list-style-type: none"> • Items of VECTOR1 are <code>permutable</code>. • Items of VECTOR2 are <code>permutable</code>. • Arguments are <code>permutable</code> w.r.t. permutation (VECTOR1, VECTOR2). 	
Used in	<code>all_incomparable</code> .	
See also	<code>implies</code> : <code>lex_different</code> . system of constraints : <code>all_incomparable</code> .	
Keywords	characteristic of a constraint : <code>vector</code> . constraint type : <code>predefined constraint</code> .	
Cond. implications	<ul style="list-style-type: none"> • <code>incomparable</code>(VECTOR1, VECTOR2) with $\text{VECTOR1} = 2$ implies <code>disjoint</code>(VARIABLES1 : VECTOR1, VARIABLES2 : VECTOR2). 	

- `incomparable(VECTOR1, VECTOR2)`
with `|VECTOR1| = 2`
implies `int_value_precede_chain`(VALUES : VECTOR1, VARIABLES : VECTOR2).