

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) $ VECTOR1 \geq 1$ $ VECTOR2 \geq 1$ $ VECTOR1 = VECTOR2 $	
Purpose	Enforce that when the components of VECTOR1 and VECTOR2 are ordered, and respectively denoted by SVECTOR1 and SVECTOR2, we neither have $SVECTOR1[i].var \leq SVECTOR2[i].var$ (for all $i \in [1, SVECTOR1]$) nor have $SVECTOR2[i].var \leq SVECTOR1[i].var$ (for all $i \in [1, SVECTOR1]$).	
Example	$((16, 2), (4, 11))$ The <code>incomparable</code> constraint holds since $16 > 4$ and $2 < 11$.	
Typical	$ 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: lex_different</code> . <code>system of constraints: all_incomparable</code> .	
Keywords	<code>characteristic of a constraint: vector</code> . <code>constraint type: predefined constraint</code> .	
Cond. implications	<ul style="list-style-type: none"> <code>incomparable(VECTOR1, VECTOR2)</code> with $VECTOR1 = 2$ <code>implies disjoint</code>(VARIABLES1 : VECTOR1, VARIABLES2 : VECTOR2). 	

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