2	336 PREDEF	INE
5	5.406 twin	
	DESCRIPTION LINKS	
Origin	Pairs of variables related by hiden element constraints sharing the same table.	
Constraint	twin(PAIRS)	
Argument	PAIRS : collection(x-dvar,y-dvar)	
Restrictions	<pre>required(PAIRS, x) required(PAIRS, y) PAIRS > 0</pre>	
Purpose	Enforce the condition $PAIRS[i].x = u \land PAIRS[i].y = v \ (i \in [1, PAIRS]) \Rightarrow \forall [1, PAIRS] : PAIRS[j].x = u \Leftrightarrow PAIRS[j].y = v.$	$j \in$
Example	$\begin{pmatrix} x-1 & y-8, \\ x-9 & y-6, \\ x-1 & y-8, \\ x-5 & y-0, \\ x-6 & y-7, \\ x-9 & y-6 \end{pmatrix}$ The twin constraint holds since 1 is paired with 8, 9 is paired with 6, 5 is p	aire
Typical	<pre>with 0, 6 is paired with 7. PAIRS > 1 PAIRS >nval(PAIRS.x) PAIRS >nval(PAIRS.y) nval(PAIRS.x) > 1 nval(PAIRS.y) > 1 nval(PAIRS.x) =nval(PAIRS.y) nval(PAIRS.x) < PAIRS nval(PAIRS.y) < PAIRS </pre>	
Arg. properties	Contractible wrt. PAIRS.	
See also	<pre>implied by: circuit, derangement, proper_circ symmetric_alldifferent_loop.</pre>	uit:
	related: element (pairs linked by an element with the same table).	
Keywords	<pre>characteristic of a constraint: pair. constraint type: predefined constraint.</pre>	