5.342 same_sign

DESCRIPTION LINKS

Origin Arithmetic.

Constraint same_sign(VAR1, VAR2)

Arguments

VAR1	:	dvar
VAR2	:	dvar

Restriction

Purpose Enforce the fact that the product of the first and second variables is greater than or equal to 0.

Example $(7, 1)$

The same_sign constraint holds since 7 and 1 have the same sign.

Typical

$\text{VAR1} \neq 0$
$\text{VAR2} \neq 0$

Symmetry Arguments are permutable w.r.t. permutation (VAR1, VAR2).

See also

comparison swapped: opposite_sign.

implied by: divisible_or, eq, sign_of.

Keywords

constraint arguments: binary constraint.

constraint type: predefined constraint, arithmetic constraint.

filtering: arc-consistency.