```
### MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
top
interval of dim (0,0):
__________
array of constraints of size 1
 0: 1 − x0 >= 0
### ### ###
### MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
top
interval of dim (0,0):
__________
array of constraints of size 2
 0: −x0 + 1 >= 0
 1: −x0 + 1 >= 0
### ### ###
### RESULT OF MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := [−oo,1]

(1) := [−oo,+oo]

interval of dim (0,0):
__________
### ### ###
### RESULT OF MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := [−oo,1]

(1) := [−oo,+oo]

interval of dim (0,0):
__________
### ### ###
### MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
top
interval of dim (0,0):
__________
array of constraints of size 1
 0: x0 − −(1) >= 0
### ### ###
### MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
top
interval of dim (0,0):
__________
array of constraints of size 2
 0: x0 + 1 >= 0
 1: x0 + 1 >= 0
### ### ###
### RESULT OF MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := [−1,+oo]

(1) := [−oo,+oo]

interval of dim (0,0):
__________
### ### ###
### RESULT OF MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := [−1,+oo]

(1) := [−oo,+oo]

interval of dim (0,0):
__________
### ### ###
### MEET OPERANDS (destructive 0)###
__________T1+ abstract__________
(0) := [−1,+oo]
```

```
(1) := [-oo,+oo]

interval of dim (0,0):
__________
__________T1+ abstract__________
(0) := [-oo,1]

(1) := [-oo,+oo]

interval of dim (0,0):
__________
### ### ###
### RESULT of MEET ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,0):
__________
### ### ###
### MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,0):
__________
array of constraints of size 1
 0: -(x0 - 0) > 0
### ### ###
### MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,0):
__________
array of constraints of size 2
 0: -x0 > 0
 1: -x0 >= 0
### ### ###
### RESULT OF MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,0]
__________
### ### ###
### RESULT OF MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,0]
__________
### ### ###
### MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,0]
```

```
__________
array of constraints of size 1
 0: -(x0 - -(1/10)) > 0
### ### ###
### MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,0]
__________
array of constraints of size 2
 0: -x0 + [-0.10000000000000000555,-0.099999999999999991673] > 0
 1: -x0 - 0.099999999999999991673 >= 0
### ### ###
### RESULT OF MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.099999999999999991673]
__________
### ### ###
### RESULT OF MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.099999999999999991673]
__________
### ### ###
### MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.099999999999999991673]
__________
array of constraints of size 1
 0: -(x0 - -(1/5)) > 0
### ### ###
### MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.099999999999999991673]
__________
array of constraints of size 2
 0: -x0 + [-0.20000000000000000111,-0.19999999999999998335] > 0
 1: -x0 - 0.19999999999999998335 >= 0
### ### ###
### RESULT OF MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.19999999999999998335]
__________
### ### ###
### RESULT OF MEET TCONS ARRAY (des 0) ###
```

```
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.19999999999999998335]
__________
### ### ###
### MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.19999999999999998335]
__________
array of constraints of size 1
 0: -(x0 - -(3/10)) > 0
### ### ###
### MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.19999999999999998335]
__________
array of constraints of size 2
 0: -x0 + [-0.30000000000000004441,-0.2999999999999999889] > 0
 1: -x0 - 0.2999999999999999889 >= 0
### ### ###
### RESULT OF MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.2999999999999999889]
__________
### ### ###
### RESULT OF MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.2999999999999999889]
__________
### ### ###
### MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.2999999999999999889]
__________
array of constraints of size 1
 0: -(x0 - -(2/5)) > 0
### ### ###
### MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
```

```
      x0 in [-1,-0.2999999999999999889]
__________
array of constraints of size 2
 0: -x0 + [-0.4000000000000000222,-0.39999999999999996669] > 0
 1: -x0 - 0.39999999999999996669 >= 0
### ### ###
### RESULT OF MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.39999999999999996669]
__________
### ### ###
### RESULT OF MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.39999999999999996669]
__________
### ### ###
### MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.39999999999999996669]
__________
array of constraints of size 1
 0: -(x0 - -(1/2)) > 0
### ### ###
### MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.39999999999999996669]
__________
array of constraints of size 2
 0: -x0 - 0.5 > 0
 1: -x0 - 0.5 >= 0
### ### ###
### RESULT OF MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.5]
__________
### ### ###
### RESULT OF MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.5]
__________
### ### ###
### MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
```

```
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.5]
__________
array of constraints of size 1
 0: -(x0 - -(3/5)) > 0
### ### ###
### MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.5]
__________
array of constraints of size 2
 0: -x0 + [-0.60000000000000008882,-0.5999999999999999778] > 0
 1: -x0 - 0.5999999999999999778 >= 0
### ### ###
### RESULT OF MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.5999999999999999778]
__________
### ### ###
### RESULT OF MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.5999999999999999778]
__________
### ### ###
### MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.5999999999999999778]
__________
array of constraints of size 1
 0: -(x0 - -(7/10)) > 0
### ### ###
### MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.5999999999999999778]
__________
array of constraints of size 2
 0: -x0 + [-0.70000000000000006661,-0.69999999999999995559] > 0
 1: -x0 - 0.69999999999999995559 >= 0
### ### ###
### RESULT OF MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]
```

```
interval of dim (0,1):
      x0 in [-1,-0.69999999999999995559]
__________
### ### ###
### RESULT OF MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.69999999999999995559]
__________
### ### ###
### MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.69999999999999995559]
__________
array of constraints of size 1
 0: -(x0 - -(4/5)) > 0
### ### ###
### MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.69999999999999995559]
__________
array of constraints of size 2
 0: -x0 + [-0.80000000000000004441,-0.79999999999999993339] > 0
 1: -x0 - 0.79999999999999993339 >= 0
### ### ###
### RESULT OF MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.79999999999999993339]
__________
### ### ###
### RESULT OF MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.79999999999999993339]
__________
### ### ###
### MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.79999999999999993339]
__________
array of constraints of size 1
 0: -(x0 - -(9/10)) > 0
### ### ###
### MEET LINCONS ARRAY (des 0) ###
```

```
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.79999999999999993339]
__________
array of constraints of size 2
 0: -x0 + [-0.90000000000000000222,-0.89999999999999991118] > 0
 1: -x0 - 0.89999999999999991118 >= 0
### ### ###
### RESULT OF MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.89999999999999991118]
__________
### ### ###
### RESULT OF MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.89999999999999991118]
__________
### ### ###
### MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.79999999999999993339]
__________
array of constraints of size 1
 0: x0 - -(9/10) >= 0
### ### ###
### MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.79999999999999993339]
__________
array of constraints of size 2
 0: x0 + [0.89999999999999991118,0.90000000000000000222] >= 0
 1: x0 + 0.90000000000000000222 >= 0
### ### ###
### RESULT OF MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-0.90000000000000000222,-0.79999999999999993339]
__________
### ### ###
### RESULT OF MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]
```

```
interval of dim (0,1):
      x0 in [-0.9000000000000000222,-0.79999999999999993339]
__________
### ### ###
### JOIN OPERANDS (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := 0 + 20.(x0) + 3.5527136788005009294e-15.(x1)

interval of dim (0,1):
      x0 in [-1,-0.89999999999999991118]
__________
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := 0 + 19.(x0) + 3.5527136788005009294e-15.(x2)

interval of dim (0,1):
      x0 in [-0.9000000000000000222,-0.79999999999999993339]
__________
### ### ###
### RESULT of JOIN (des 0) ###
__________T1+ abstract__________
(0) := -0.89999999999999991118 + [u]0.10000000000000008882.(x3)

(1) := -17.599999999999997868 + [u]2.4000000000000056843.(x4)

interval of dim (0,1):
      x0 in [-1,-0.79999999999999993339]
__________
### ### ###
### MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.69999999999999995559]
__________
array of constraints of size 1
 0: x0 - -(4/5) >= 0
### ### ###
### MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.69999999999999995559]
__________
array of constraints of size 2
 0: x0 + [0.79999999999999993339,0.80000000000000004441] >= 0
 1: x0 + 0.80000000000000004441 >= 0
### ### ###
### RESULT OF MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-0.80000000000000004441,-0.69999999999999995559]
__________
### ### ###
### RESULT OF MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]
```

```
interval of dim (0,1):
      x0 in [−0.80000000000000004441,−0.69999999999999995559]
__________
### ### ###
### JOIN OPERANDS (des 0) ###
__________T1+ abstract__________
(0) := −0.89999999999999991118 + [u]0.10000000000000008882.(x3)

(1) := −17.599999999999997868 + [u]2.4000000000000056843.(x4)

interval of dim (0,1):
      x0 in [−1,−0.79999999999999993339]
__________
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := 0 + 18.(x0)

interval of dim (0,1):
      x0 in [−0.80000000000000004441,−0.69999999999999995559]
__________
### ### ###
### RESULT of JOIN (des 0) ###
__________T1+ abstract__________
(0) := −0.8499999999999999778 + [u]0.15000000000000000222.(x5)

(1) := −16.300000000000000711 + [u]3.7000000000000028422.(x6)

interval of dim (0,0):
__________
### ### ###
### MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [−oo,+oo]

interval of dim (0,1):
      x0 in [−1,−0.59999999999999999778]
__________
array of constraints of size 1
 0: x0 − −(7/10) >= 0
### ### ###
### MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [−oo,+oo]

interval of dim (0,1):
      x0 in [−1,−0.59999999999999999778]
__________
array of constraints of size 2
 0: x0 + [0.69999999999999995559,0.70000000000000006661] >= 0
 1: x0 + 0.70000000000000006661 >= 0
### ### ###
### RESULT OF MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [−oo,+oo]

interval of dim (0,1):
      x0 in [−0.70000000000000006661,−0.59999999999999999778]
__________
### ### ###
### RESULT OF MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [−oo,+oo]

interval of dim (0,1):
```

```
      x0 in [-0.70000000000000006661,-0.5999999999999999778]
__________
### ### ###
### JOIN OPERANDS (des 0) ###
__________T1+ abstract__________
(0) := -0.8499999999999999778 + [u]0.1500000000000000222.(x5)

(1) := -16.300000000000000711 + [u]3.7000000000000028422.(x6)

interval of dim (0,0):
__________
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := 0 + 17.(x0) + 1.7763568394002504647e-15.(x7)

interval of dim (0,1):
      x0 in [-0.70000000000000006661,-0.5999999999999999778]
__________
### ### ###
### RESULT of JOIN (des 0) ###
__________T1+ abstract__________
(0) := -0.79999999999999993339 + [u]0.20000000000000006661.(x8)

(1) := -15.099999999999999645 + [u]4.900000000000003908.(x9)

interval of dim (0,0):
__________
### ### ###
### MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.5]
__________
array of constraints of size 1
 0: x0 - -(3/5) >= 0
### ### ###
### MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.5]
__________
array of constraints of size 2
 0: x0 + [0.5999999999999999778,0.60000000000000008882] >= 0
 1: x0 + 0.60000000000000008882 >= 0
### ### ###
### RESULT OF MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-0.60000000000000008882,-0.5]
__________
### ### ###
### RESULT OF MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-0.60000000000000008882,-0.5]
__________
```

```
### ### ###
### JOIN OPERANDS (des 0) ###
__________T1+ abstract__________
(0) := −0.79999999999999993339 + [u]0.20000000000000006661.(x8)

(1) := −15.099999999999999645 + [u]4.900000000000003908.(x9)

interval of dim (0,0):

__________
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := 0 + 16.(x0)

interval of dim (0,1):
      x0 in [−0.60000000000000008882,−0.5]
__________
### ### ###
### RESULT of JOIN (des 0) ###
__________T1+ abstract__________
(0) := −0.75 + [u]0.25.(x10)

(1) := −14.000000000000001776 + [u]6.0000000000000017764.(x11)

interval of dim (0,0):

__________
### ### ###
### MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [−oo,+oo]

interval of dim (0,1):
      x0 in [−1,−0.39999999999999996669]
__________
array of constraints of size 1
 0: x0 − −(1/2) >= 0
### ### ###
### MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [−oo,+oo]

interval of dim (0,1):
      x0 in [−1,−0.39999999999999996669]
__________
array of constraints of size 2
 0: x0 + 0.5 >= 0
 1: x0 + 0.5 >= 0
### ### ###
### RESULT OF MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [−oo,+oo]

interval of dim (0,1):
      x0 in [−0.5,−0.39999999999999996669]
__________
### ### ###
### RESULT OF MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [−oo,+oo]

interval of dim (0,1):
      x0 in [−0.5,−0.39999999999999996669]
__________
### ### ###
### JOIN OPERANDS (des 0) ###
```

```
__________T1+ abstract__________
(0) := −0.75 + [u]0.25.(x10)

(1) := −14.000000000000001776 + [u]6.0000000000000017764.(x11)

interval of dim (0,0):

__________
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := 0 + 15.(x0) + 8.8817841970012523234e−16.(x12)

interval of dim (0,1):
      x0 in [−0.5,−0.39999999999999996669]

__________
### ### ###
### RESULT of JOIN (des 0) ###
__________T1+ abstract__________
(0) := −0.69999999999999995559 + [u]0.30000000000000004441.(x13)

(1) := −13 + [u]7.0000000000000035527.(x14)

interval of dim (0,0):

__________
### ### ###
### MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [−oo,+oo]

interval of dim (0,1):
      x0 in [−1,−0.2999999999999999889]

__________
array of constraints of size 1
 0: x0 − −(2/5) >= 0
### ### ###
### MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [−oo,+oo]

interval of dim (0,1):
      x0 in [−1,−0.2999999999999999889]

__________
array of constraints of size 2
 0: x0 + [0.39999999999999996669,0.40000000000000000222] >= 0
 1: x0 + 0.40000000000000000222 >= 0
### ### ###
### RESULT OF MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [−oo,+oo]

interval of dim (0,1):
      x0 in [−0.40000000000000000222,−0.2999999999999999889]

__________
### ### ###
### RESULT OF MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [−oo,+oo]

interval of dim (0,1):
      x0 in [−0.40000000000000000222,−0.2999999999999999889]

__________
### ### ###
### JOIN OPERANDS (des 0) ###
__________T1+ abstract__________
(0) := −0.69999999999999995559 + [u]0.30000000000000004441.(x13)
```

```
(1) := −13 + [u]7.0000000000000035527.(x14)

interval of dim (0,0):
__________
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := 0 + 14.(x0) + 8.8817841970012523234e−16.(x15)

interval of dim (0,1):
      x0 in [−0.4000000000000000222,−0.2999999999999999889]
__________
### ### ###
### RESULT of JOIN (des 0) ###
__________T1+ abstract__________
(0) := −0.64999999999999991118 + [u]0.35000000000000008882.(x16)

(1) := −12.099999999999999645 + [u]7.900000000000003908.(x17)

interval of dim (0,0):
__________
### ### ###
### MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [−oo,+oo]

interval of dim (0,1):
      x0 in [−1,−0.19999999999999998335]
__________
array of constraints of size 1
 0: x0 − −(3/10) >= 0
### ### ###
### MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [−oo,+oo]

interval of dim (0,1):
      x0 in [−1,−0.19999999999999998335]
__________
array of constraints of size 2
 0: x0 + [0.2999999999999999889,0.30000000000000004441] >= 0
 1: x0 + 0.30000000000000004441 >= 0
### ### ###
### RESULT OF MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [−oo,+oo]

interval of dim (0,1):
      x0 in [−0.30000000000000004441,−0.19999999999999998335]
__________
### ### ###
### RESULT OF MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [−oo,+oo]

interval of dim (0,1):
      x0 in [−0.30000000000000004441,−0.19999999999999998335]
__________
### ### ###
### JOIN OPERANDS (des 0) ###
__________T1+ abstract__________
(0) := −0.64999999999999991118 + [u]0.35000000000000008882.(x16)

(1) := −12.099999999999999645 + [u]7.900000000000003908.(x17)
```

```
interval of dim (0,0):

__________
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := 0 + 13.(x0)

interval of dim (0,1):
      x0 in [-0.30000000000000004441,-0.19999999999999998335]
__________
### ### ###
### RESULT of JOIN (des 0) ###
__________T1+ abstract__________
(0) := -0.5999999999999999778 + [u]0.4000000000000000222.(x18)

(1) := -11.300000000000000711 + [u]8.7000000000000028422.(x19)

interval of dim (0,0):

__________
### ### ###
### MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.099999999999999991673]
__________
array of constraints of size 1
 0: x0 - -(1/5) >= 0
### ### ###
### MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,-0.099999999999999991673]
__________
array of constraints of size 2
 0: x0 + [0.19999999999999998335,0.20000000000000000111] >= 0
 1: x0 + 0.20000000000000000111 >= 0
### ### ###
### RESULT OF MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-0.20000000000000000111,-0.099999999999999991673]
__________
### ### ###
### RESULT OF MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-0.20000000000000000111,-0.099999999999999991673]
__________
### ### ###
### JOIN OPERANDS (des 0) ###
__________T1+ abstract__________
(0) := -0.5999999999999999778 + [u]0.4000000000000000222.(x18)

(1) := -11.300000000000000711 + [u]8.7000000000000028422.(x19)

interval of dim (0,0):
```

```
__________
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := 0 + 12.(x0) + 2.2204460492503130808e-16.(x20)

interval of dim (0,1):
      x0 in [-0.2000000000000000111,-0.099999999999999991673]
__________
### ### ###
### RESULT of JOIN (des 0) ###
__________T1+ abstract__________
(0) := -0.54999999999999993339 + [u]0.45000000000000006661.(x21)

(1) := -10.600000000000001421 + [u]9.4000000000000021316.(x22)

interval of dim (0,0):
__________
### ### ###
### MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,0]
__________
array of constraints of size 1
 0: x0 - -(1/10) >= 0
### ### ###
### MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-1,0]
__________
array of constraints of size 2
 0: x0 + [0.09999999999999991673,0.10000000000000000555] >= 0
 1: x0 + 0.10000000000000000555 >= 0
### ### ###
### RESULT OF MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-0.10000000000000000555,0]
__________
### ### ###
### RESULT OF MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [-0.10000000000000000555,0]
__________
### ### ###
### JOIN OPERANDS (des 0) ###
__________T1+ abstract__________
(0) := -0.54999999999999993339 + [u]0.45000000000000006661.(x21)

(1) := -10.600000000000001421 + [u]9.4000000000000021316.(x22)

interval of dim (0,0):
__________
__________T1+ abstract__________
```

```
(0) := 0 + 1.(x0)

(1) := 0 + 11.(x0) + 1.1102230246251565404e-16.(x23)

interval of dim (0,1):
      x0 in [-0.10000000000000000555,0]
__________
### ### ###
### RESULT of JOIN (des 0) ###
__________T1+ abstract__________
(0) := -0.5 + [u]0.5.(x24)

(1) := -10 + [u]10.000000000000003553.(x25)

interval of dim (0,0):
__________
### ### ###
### MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,0):
__________
array of constraints of size 1
 0: x0 - 0 >= 0
### ### ###
### MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,0):
__________
array of constraints of size 2
 0: x0 >= 0
 1: x0 >= 0
### ### ###
### RESULT OF MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [0,1]
__________
### ### ###
### RESULT OF MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := [-oo,+oo]

interval of dim (0,1):
      x0 in [0,1]
__________
### ### ###
### JOIN OPERANDS (des 0) ###
__________T1+ abstract__________
(0) := -0.5 + [u]0.5.(x24)

(1) := -10 + [u]10.000000000000003553.(x25)

interval of dim (0,0):
__________
__________T1+ abstract__________
(0) := 0 + 1.(x0)

(1) := 0 + 10.(x0)
```

```
interval of dim (0,1):
      x0 in [0,1]

__________
### ### ###
### RESULT of JOIN (des 0) ###
__________T1+ abstract__________
(0) := 0 + [u]1.(x26)

(1) := -5.0000000000000017764 + [u]15.000000000000001776.(x27)

interval of dim (0,0):

__________
### ### ###
### MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + [u]1.(x26)

(1) := -5.0000000000000017764 + [u]15.000000000000001776.(x27)

interval of dim (0,0):

__________
array of constraints of size 1
 0: x1 - 1 = 0
### ### ###
### MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + [u]1.(x26)

(1) := -5.0000000000000017764 + [u]15.000000000000001776.(x27)

interval of dim (0,0):

__________
array of constraints of size 2
 0: x1 - 1 = 0
 1: -x1 + 1 = 0
### ### ###
### RESULT OF MEET LINCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + [u]1.(x26)

(1) := [0.99999999999999911182,1.0000000000000008882] + 0.(x27)

interval of dim (0,1):
     x27 in [0.40000000000000000222,0.40000000000000007772]

__________
### ### ###
### RESULT OF MEET TCONS ARRAY (des 0) ###
__________T1+ abstract__________
(0) := 0 + [u]1.(x26)

(1) := [0.99999999999999911182,1.0000000000000008882] + 0.(x27)

interval of dim (0,1):
     x27 in [0.40000000000000000222,0.40000000000000007772]

__________
 [32mAnnotated program after forward analysis [m
var x : real, y : real;
begin
  /*  [31m(L5 C5) top [m */
  assume x >= -1 and x <= 1; /*  [31m(L6 C26) [|x+1.>=0; -x+1.>=0|] [m */
  if x >= 0 then
     /*  [31m(L7 C14) [|x>=0; -x+1.>=0|] [m */
     y = 10 * x; /*  [31m(L8 C9) [|x>=0; -x+1.>=0; y>=0; -y+10.>=0|] [m */
  else
    /*  [31m(L9 C4) [|x+1.>=0; -x>=0|] [m */
    if x >= -1/10 then
       /*  [31m(L10 C18) [|x+0.1>=0; -x>=0|] [m */
       y = 11 * x; /*  [31m(L11 C9)
                       [|x+0.1>=0; -x>=0; y+1.1>=0; -y+1.11022302463e-16>=0|] [m */
    else
      /*  [31m(L12 C4) [|x+1.>=0; -x-0.1>=0|] [m */
      if x >= -1/5 then
         /*  [31m(L13 C18) [|x+0.2>=0; -x-0.1>=0|] [m */
```

```
        y = 12 * x; /*  [31m(L14 C9)
                        [|x+0.2>=0; -x-0.1>=0; y+2.4>=0; -y-1.2>=0|] [m */
      else
        /*  [31m(L15 C4) [|x+1.>=0; -x-0.2>=0|] [m */
        if x >= -3/10 then
           /*  [31m(L16 C18) [|x+0.3>=0; -x-0.2>=0|] [m */
           y = 13 * x; /*  [31m(L17 C9)
                           [|x+0.3>=0; -x-0.2>=0; y+3.9>=0; -y-2.6>=0|] [m */
        else
          /*  [31m(L18 C4) [|x+1.>=0; -x-0.3>=0|] [m */
          if x >= -2/5 then
             /*  [31m(L19 C18) [|x+0.4>=0; -x-0.3>=0|] [m */
             y = 14 * x; /*  [31m(L20 C9)
                             [|x+0.4>=0; -x-0.3>=0; y+5.6>=0; -y-4.2>=0|] [m */
          else
            /*  [31m(L21 C4) [|x+1.>=0; -x-0.4>=0|] [m */
            if x >= -1/2 then
               /*  [31m(L22 C18) [|x+0.5>=0; -x-0.4>=0|] [m */
               y = 15 * x; /*  [31m(L23 C9)
                               [|x+0.5>=0; -x-0.4>=0; y+7.5>=0; -y-6.>=0|] [m */
            else
              /*  [31m(L24 C4) [|x+1.>=0; -x-0.5>=0|] [m */
              if x >= -3/5 then
                 /*  [31m(L25 C18) [|x+0.6>=0; -x-0.5>=0|] [m */
                 y = 16 * x; /*  [31m(L26 C9)
                                 [|x+0.6>=0; -x-0.5>=0; y+9.6>=0; -y-8.>=0|] [m */
              else
                /*  [31m(L27 C4) [|x+1.>=0; -x-0.6>=0|] [m */
                if x >= -7/10 then
                   /*  [31m(L28 C18) [|x+0.7>=0; -x-0.6>=0|] [m */
                   y = 17 * x; /*  [31m(L29 C9)
                                   [|x+0.7>=0; -x-0.6>=0; y+11.9>=0;
                                     -y-10.2>=0|] [m */
                else
                  /*  [31m(L30 C4) [|x+1.>=0; -x-0.7>=0|] [m */
                  if x >= -4/5 then
                     /*  [31m(L31 C18) [|x+0.8>=0; -x-0.7>=0|] [m */
                     y = 18 * x; /*  [31m(L32 C9)
                                     [|x+0.8>=0; -x-0.7>=0; y+14.4>=0;
                                       -y-12.6>=0|] [m */
                  else
                    /*  [31m(L33 C4) [|x+1.>=0; -x-0.8>=0|] [m */
                    if x >= -9/10 then
                       /*  [31m(L34 C18) [|x+0.9>=0; -x-0.8>=0|] [m */
                       y = 19 * x; /*  [31m(L35 C9)
                                       [|x+0.9>=0; -x-0.8>=0; y+17.1>=0;
                                         -y-15.2>=0|] [m */
                    else
                      /*  [31m(L36 C4) [|x+1.>=0; -x-0.9>=0|] [m */
                      y = 20 * x; /*  [31m(L37 C9)
                                      [|x+1.>=0; -x-0.9>=0; y+20.>=0;
                                        -y-18.>=0|] [m */
                    endif; /*  [31m(L38 C6)
                               [|x+1.>=0; -x-0.8>=0; y+20.>=0; -y-15.2>=0|] [m */
                  endif; /*  [31m(L39 C6)
                             [|x+1.>=0; -x-0.7>=0; y+20.>=0; -y-12.6>=0|] [m */
                endif; /*  [31m(L40 C6)
                           [|x+1.>=0; -x-0.6>=0; y+20.>=0; -y-10.2>=0|] [m */
              endif; /*  [31m(L41 C6)
                         [|x+1.>=0; -x-0.5>=0; y+20.>=0; -y-8.>=0|] [m */
            endif; /*  [31m(L42 C6)
                       [|x+1.>=0; -x-0.4>=0; y+20.>=0; -y-6.>=0|] [m */
          endif; /*  [31m(L43 C6)
                     [|x+1.>=0; -x-0.3>=0; y+20.>=0; -y-4.2>=0|] [m */
        endif; /*  [31m(L44 C6)
                   [|x+1.>=0; -x-0.2>=0; y+20.>=0; -y-2.6>=0|] [m */
      endif; /*  [31m(L45 C6) [|x+1.>=0; -x-0.1>=0; y+20.>=0; -y-1.2>=0|] [m */
    endif; /*  [31m(L46 C6)
               [|x+1.>=0; -x>=0; y+20.>=0; -y+3.5527136788e-15>=0|] [m */
  endif; /*  [31m(L47 C6) [|x+1.>=0; -x+1.>=0; y+20.>=0; -y+10.>=0|] [m */
  assume y == 1; /*  [31m(L48 C14)
                     [|x+1.>=0; -x+1.>=0; y-1.>=0; -y+1.>=0|] [m */
end
```

```
### ### ###
********* free 93d3890*********
********* free 93d37f0*********
********* free 93d23c8*********
********* free 93d1de0*********
********* free 93d0470*********
********* free 93d03d0*********
********* free 93cea80*********
********* free 93ce9e0*********
********* free 93ccf40*********
********* free 93ccfc0*********
********* free 93cb688*********
********* free 93cb5e8*********
********* free 93c9b18*********
********* free 93c9b98*********
********* free 93c8788*********
********* free 93c8190*********
********* free 93c76f8*********
********* free 93c6d30*********
********* free 93c6758*********
********* free 93c57b8*********
********* free 93c4ce8*********
********* free 93c4170*********
********* free 93c3710*********
********* free 93c2c20*********
********* free 93c2670*********
********* free 93c13a8*********
********* free 93c1958*********
********* free 93c13d0*********
```