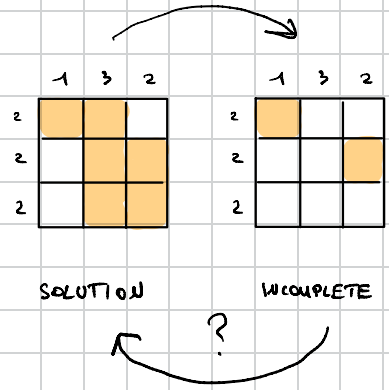

DATA

SIZE = 3

	0	1	2	3	4	5	6	7	8
GRID =	1	0	0	0	0	1	0	0	0

i → 0 1 2

COLUMNS = [1, 3, 2]

j → 0 1 2

ROWS = [2, 2, 2]

GRID = [1, 0, 0, 0, 0, 1, 0, 0, 0] → GT =

i → / j ↓	0	1	2
0	1	0	0
1	0	0	1
2	0	0	0

i=0, j ↓

GT [0][0] +
GT [0][1] + → 1 + 0 + 0 = 1 ✓
GT [0][2] =
COLUMNS [1]

i=1, j ↓

GT [1][0] +
GT [1][1] + →
GT [1][2] =
COLUMNS [1]

0 + 0 + 0 = 3 ✗

$$\begin{cases} x + y + z = 3 \\ 0 \le x \le 1 \\ 0 \le y \le 1 \\ 0 \le z \le 1 \end{cases} \rightarrow \begin{matrix} x = 1 \\ y = 2 \\ z = 3 \end{matrix}$$

i=2, j ↓

GT [2][0] +
GT [2][1] + →
GT [2][2] =
COLUMNS [1] =

0 + 1 + 0 = 2 ✗

$$\begin{cases} x + 1 + z = 2 \\ 0 \le x \le 1 \\ 0 \le z \le 1 \end{cases} \rightarrow \begin{cases} x = 1 \\ z = 0 \end{cases} \text{ or } \begin{cases} x = 0 \\ z = 1 \end{cases}$$

i ↓, j=0

GT [0][0]
GT [1][0] →
GT [2][0]
ROWS [0]

1 + 0 + 0 = 2

$$\begin{cases} 1 + y + z = 2 \\ 0 \le y \le 1 \\ 0 \le z \le 1 \end{cases}$$

All of this should go with ROWS conditions...