

VARIABLES : moving-south  
moving-north

INVARIANTE :  $\{ 2 \equiv \text{moving-south} = 0 \vee$   
 $\text{moving-north} = 0 \}$

MÉTODOS :

• wants\_enter(direction):

if direction == North:

no-south.wait(moving-south == 0)

moving-north += 1.

else:

no-north.wait(moving-north == 0)

moving-south += 1.

• leaves\_tunnel(direction):

if direction == North:

moving-north -= 1

no-north.signal.

else:

moving-south -= 1

no-south.signal.