

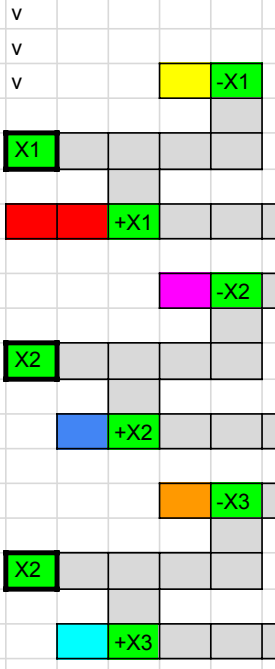
(+X1 or -X3 or +X2) and (X1 or X3 or -X2)

F can be "cleared" if and only if the formula
 (+X1 or -X3 or +X2) and (X1 or X3 or -X2)
 is satisfiable

CHOICE

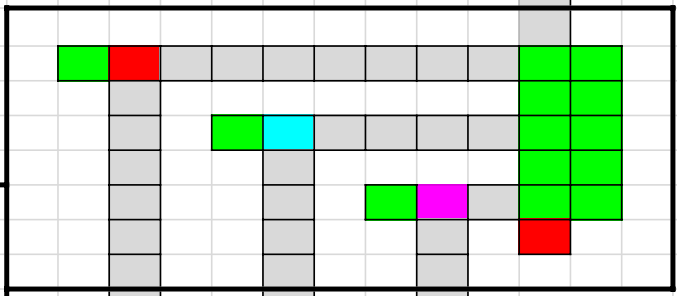
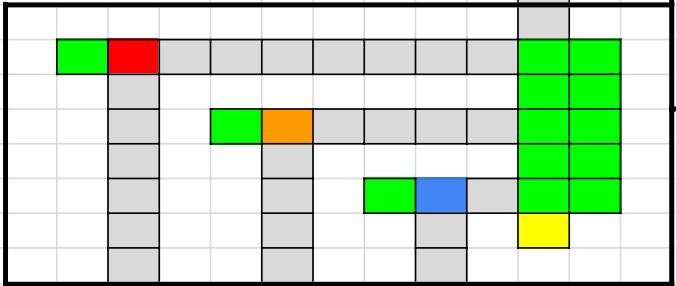
v v v
 v v v

VARIABLES



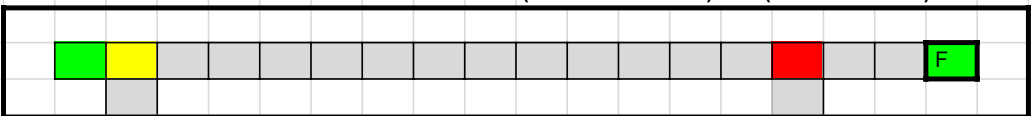
CLAUSE 1

(+X1 or -X3 or +X2)



CLAUSE 2

(X1 or X3 or -X2)



NOTE: only "corridors" are shown; in order to complete the grid, N,S,W,E blocks and fill blocks should be added; then make a symmetric copy of the grid with a central wall that can be cleared if and only if F can be cleared, See:

<https://cstheory.stackexchange.com/questions/50928/how-to-show-that-color-tiles-is-np-complete>