(define (problem p1-perillos)

(:domain laberint-perillos)

(:objects

vermell groc verd porpra arc\_de\_sant\_marti - color

loc-1-3

loc-2-1 loc-2-2 loc-2-3 loc-2-4

loc-3-2 loc-3-3

loc-4-2 loc-4-3 loc-4-4 - habitacio

clau1 clau2 clau3 clau4 - clau

c1323 c2122 c2223 c2324

c2232 c2333 c3233

c3242 c3343 c4243 c4344 - passadis

)

(:init

(es-troba loc-2-1)

(not (porta-clau))

; Connexions verticals

(conecta c1323 loc-1-3 loc-2-3)

(conecta c1323 loc-2-3 loc-1-3)

(conecta c2232 loc-2-2 loc-3-2)

(conecta c2232 loc-3-2 loc-2-2)

(conecta c2333 loc-2-3 loc-3-3)

(conecta c2333 loc-3-3 loc-2-3)

(conecta c3242 loc-3-2 loc-4-2)

(conecta c3242 loc-4-2 loc-3-2)

(conecta c3343 loc-3-3 loc-4-3)

(conecta c3343 loc-4-3 loc-3-3)

; Connexions horitzontals

(conecta c2122 loc-2-1 loc-2-2)

(conecta c2122 loc-2-2 loc-2-1)

(conecta c2223 loc-2-2 loc-2-3)

(conecta c2223 loc-2-3 loc-2-2)

(conecta c2324 loc-2-3 loc-2-4)

(conecta c2324 loc-2-4 loc-2-3)

(conecta c3233 loc-3-2 loc-3-3)

(conecta c3233 loc-3-3 loc-3-2)

(conecta c4243 loc-4-2 loc-4-3)

(conecta c4243 loc-4-3 loc-4-2)

(conecta c4344 loc-4-3 loc-4-4)

(conecta c4344 loc-4-4 loc-4-3)

; Claus

(clau-a clau1 loc-2-2) ; vermell

(clau-a clau2 loc-4-2) ; groc

(clau-a clau3 loc-2-4) ; arc

(clau-a clau4 loc-4-4) ; porpra

; Bloquejos

(bloquejat c2324 porpra)

(bloquejat c1323 arc\_de\_sant\_marti)

(bloquejat c4243 vermell)

(bloquejat c4344 groc)

; Passadissos perillosos

(perillós c4243)

; Claus i colors

(obre clau1 vermell)

(obre clau2 groc)

(obre clau3 arc\_de\_sant\_marti)

(obre clau4 porpra)

; Usos de claus

(= (usos clau1) 1)

(= (usos clau2) 2)

(= (usos clau3) 3)

(= (usos clau4) 1)

)

(:goal

(and

(es-troba loc-1-3)

)

)

)