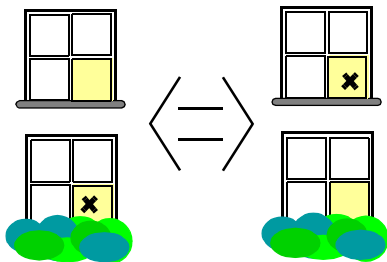
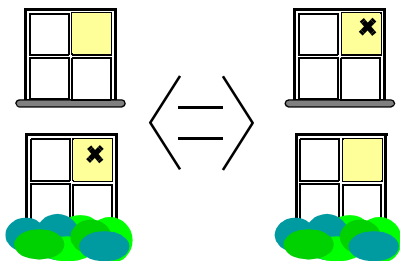


V1x: lower-right



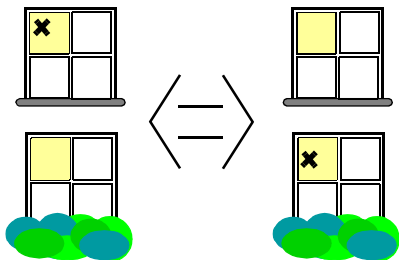
r01

V2x: upper-right



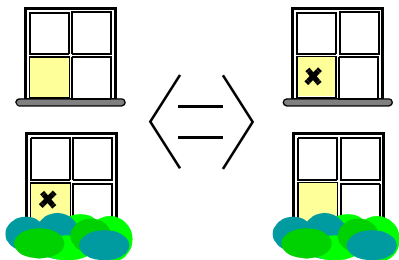
r02

V3x: upper-left



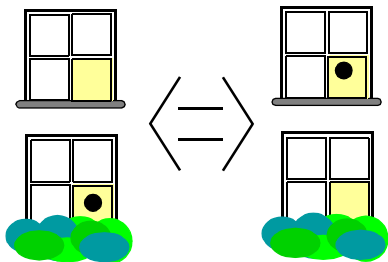
r03

V4x: lower-left



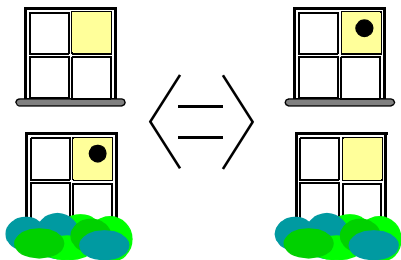
r04

V1o: lower-right



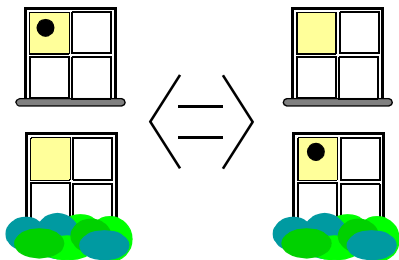
r05

V2o: upper-right



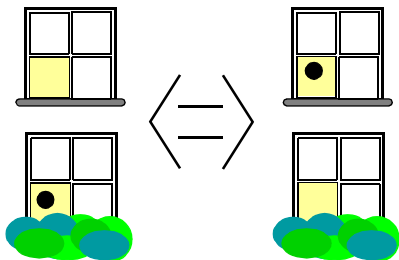
r06

V3o: upper-left



r07

V4o: lower-left

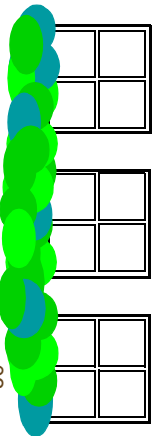
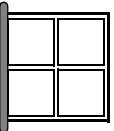
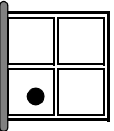
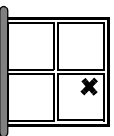


r08

Conflict



The grid contains both X and ● type tokens.

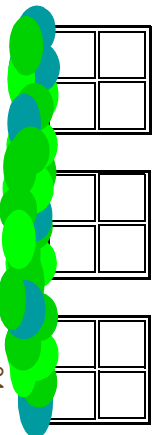
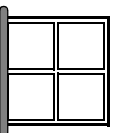
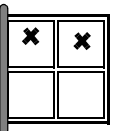
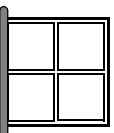


S03

Sou'wester



Any window has a token in the lower-left corner as well as another in its upper row of panes.

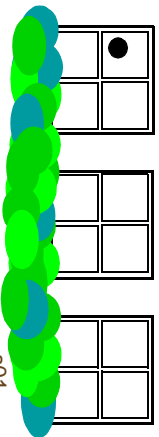
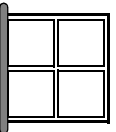
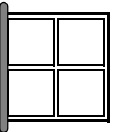
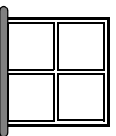


S04

Basement



*Any tokens exist in
the lower row
of windows.*

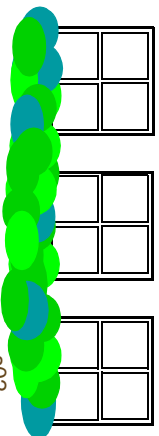
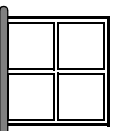
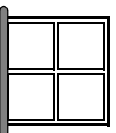
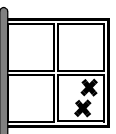


S01

Duplication

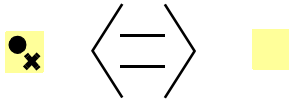


*Multiple tokens of
the same type occur in
any pane.*



S02

Pxo: x & o cancel



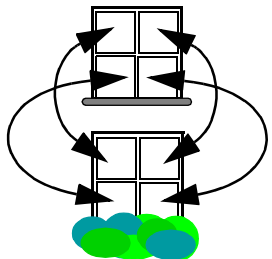
*An • and * token in the same pane cancel each other out.*

r09

Vertical Refactor



Any token may be moved vertically to the corresponding pane in the window above or below.

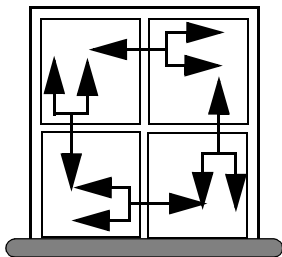


r10

Rotate 2-to-1 CCW





2 tokens of the same type may be replaced with 1 in the adjacent CCW pane & vice-versa.

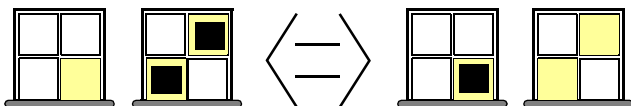


r11

H24: Horiz. Slash-dot

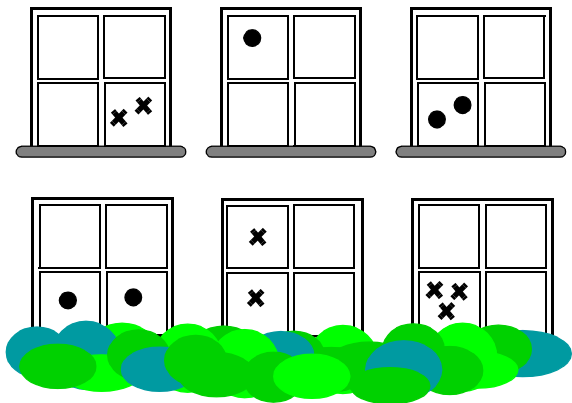


For any 2 horizontally adjacent windows, 2 identical tokens forming a slash  can be replaced with 1 in the lower right pane of the adjacent window  & vice-versa.



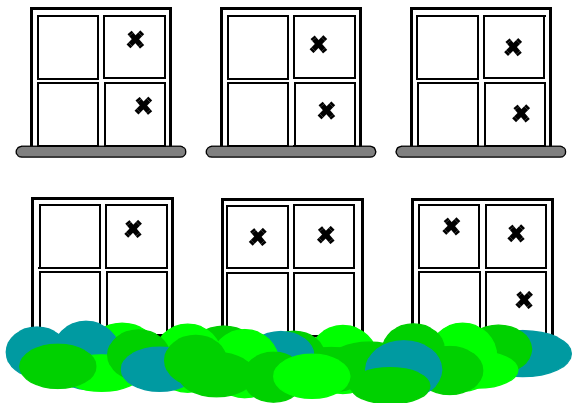
r12

Exercise 1: Eliminate Smells



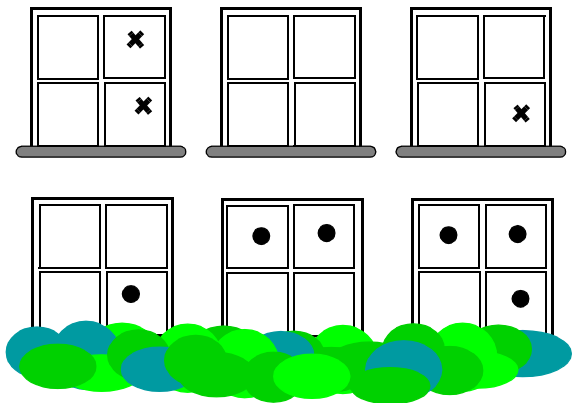
ex1

Exercise 2: Eliminate Smells



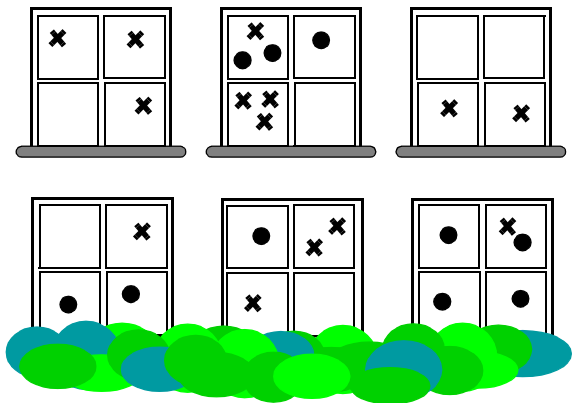
ex2

Exercise 3: Eliminate Smells



ex3

Exercise 4: Eliminate Smells



ex4

Refactoring Grid

A game created by William Wake
designed to give a feel for refactoring
in a simple non-code domain

<http://xp123.com>

card adaptation by Michael Wainer

A game created by William Wake
designed to give a feel for refactoring
in a simple non-code domain
<http://xp123.com>
card adaptation by Michael Wainer

Refactoring Grid

Refactoring Grid

A game created by William Wake
designed to give a feel for refactoring
in a simple non-code domain

<http://xp123.com>

card adaptation by Michael Wainer

A game created by William Wake
designed to give a feel for refactoring
in a simple non-code domain
<http://xp123.com>
card adaptation by Michael Wainer

Refactoring Grid