

Homework 13

2. change game-over? function.

include a check to
see if the current has
a any valid-move.

If the current player
doesn't have any valid
moves return true

1. create list of four
possible moves. → map

2. valid-move? ^{Use.} or-map.
↑
inside lambda

3.b

[Country-hemisphere]

match

→ constant → no functions

→ variables → match with anything

(+ i 1) ~~2~~

(Point x y) \leftarrow left
patch match

(Point | y)

(Point (+ x 1) (+ y 1))

\rightarrow pattern.
(match (function u)
[
 \leftarrow residual
 \leftarrow res

])
 rocket exprn

(match (function a))

[(Hemisphere - -)]

(match* ((country-hemisphere
c1) (country-hemisphere
c2)))

[(Hemisphere id1 lat1)
(Hemisphere id2 lat2) (do your check)

Time - complexity

(define (f n))
(+ (f (- n 1)) (f (- n 2)))

$$T(n) = T(n-1) + T(n-2)$$

Assuming Time complexity of
f: T(n)

(define (f n))
(+ (g (- n 1)) (f (- n 2)))
↓
⇒

$$T(n) = O(n-1) + T(n-2)$$

" O(n)

Say $S(n)$ is time complexity
of $y(n)$

$$T(n) = T(n-1) + 10n$$
$$\Rightarrow T(n) = \underline{\underline{T(n-1)}} + O(n)$$

Suppose you know
 $S(n) = \underline{\underline{O(n)}}$