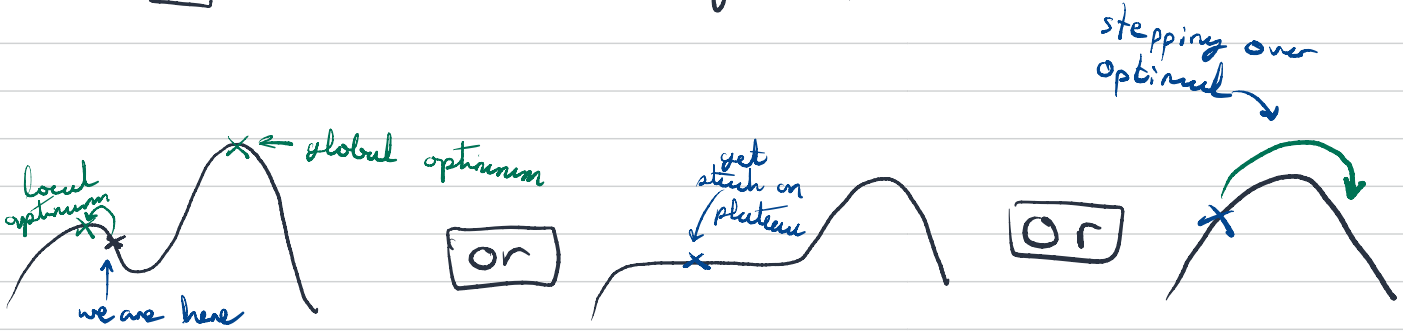
1. state [2] since has the highest value

2. 

3. $e^{\frac{h(n') - h(n)}{T}}$ } probability of adoption if not improvement (when maximizing)

new value, old value

$h(n) = 87$ ← current assignment
$h(n') = 66$ ← new assignment
$T = 6$

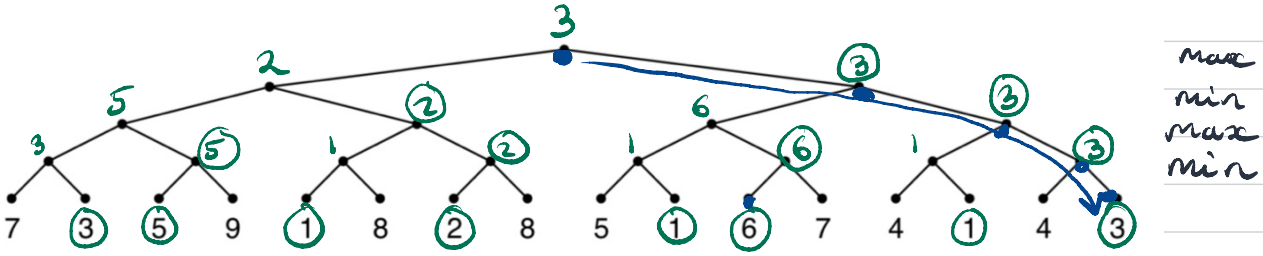
$e^{\frac{66-87}{6}} = e^{-\frac{21}{6}} \approx 0.03$

4. (a) s_3

(b) s_1 = acd badcb
s_3 = dda addaa } acd addaa / dda badcb

5. • not guaranteed to be optimal since minimax is only optimal when the opponent is playing optimally.
• guaranteed to be complete iff tree is finite

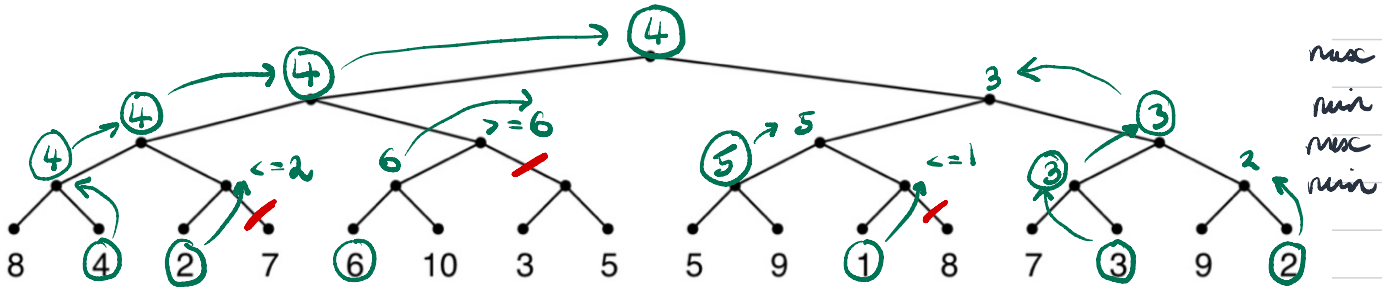
6.



R → R → R → R

expect utility of 3

7.



take left move expecting utility of 4