## Optimization

Find min or max value cor local minimax) in state space landscape - objective function if max, ele cost function

Hill dimb cotepest ascent)

I state = initial (select random)

- generate nbrs

I find best neighbour, replace cur stade

Issues geos whom at loar min.

Blam search: many different locals at once

Simiannealing: use temperature and try him-climb Up to max times,

A DE = how much better is not state than com

JDE JO, replace

relies replace with probability e DE/t

son each wn temp. decrever: les likely to reptane

a helps to explore non that are worse a creationly get to header MAYAII

3°.5° = 1 {(x,y) | x & 2, y & 2, ~ (x = 0 / y = 0) } 3× 5 4 20, 21, 25, 23, 20, 38, 35, 36, 39, 40, 42, 45 38 32.8 TB XX UB XX LBX LBY Mnor × 154,× + 15× 6 (ell ( 150 x) 15, carols, (a) 13927 5 25 15 75 1,20 6, 3, 5, & 9, le, 12, 15, 1& 20 3 × 5 1 / 1 · 20 30.59= |  $3^{\circ} \cdot 5^{1} = \frac{5}{2}$  $3^{\circ} \cdot 5^{2}z = \frac{25}{25}$ 32.59=9  $\frac{1}{100}$  (155 (  $\frac{30}{100}$  )) = 12 (1.57  $ce(1)(5_5(\frac{20}{3})) = 2$  (3, 15)  $(e:1(1s_{5}(\frac{20}{3^{2}}))=1$  (9) 6,99 3,5,9 31.50=3 32.50=9 30.50=1 5°. 5' = 5 ce:1(1ss( end)) = 2 e(s)

(ei)(  $ls_s (\frac{9}{3!}) = 1 \xrightarrow{(9)} (3)$ (ei)(  $ls_s (\frac{9}{3!}) = 1 \xrightarrow{(9)}$ 

related Lindsi find-test n tree, find, step L a.txt L find 2 La.tx+ find . - name "a. fat" => . [fm]21a.6xt ·la·txt 1. Take orl 2, get HIML - Judom 3. Vie FODES ON BES a donth-limited seven -sadd to vis set with depth Leokt L>> Sporta 1. Indinite din V huiss of sport 2. Mult. goals ( Sparter 3. dorth 1: Leas sportar heracies Leolhins of Sporta 4. first match: Leo/Sporser Desh limit 5 limit 2 ! Lealsp. Learning of 2. Matches 1:M12 3. First match find w curs sparton - title -ourspained ora p asporpies exer in tacks How many dulus? In is quite bis cpse depth) ( bas) ( 2) Async tash alloc s 11 write-all " of process, m tons on proes very in speed ed. theder) a used go required menger of the shared men a onds ppions priduce cert. that they done

Princelect many than the the there.

Rust

1. Identify dependencies of Law took stoph

a where is since necessary.

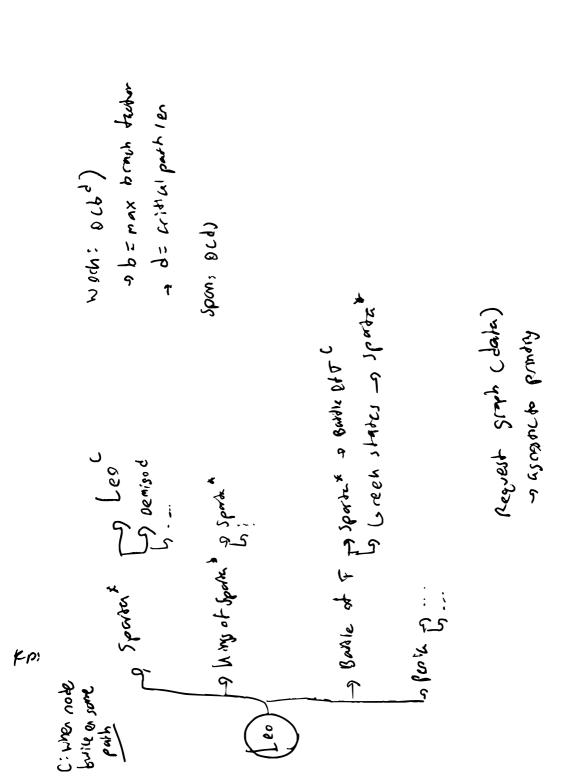
2. Write previouse to Bry based on

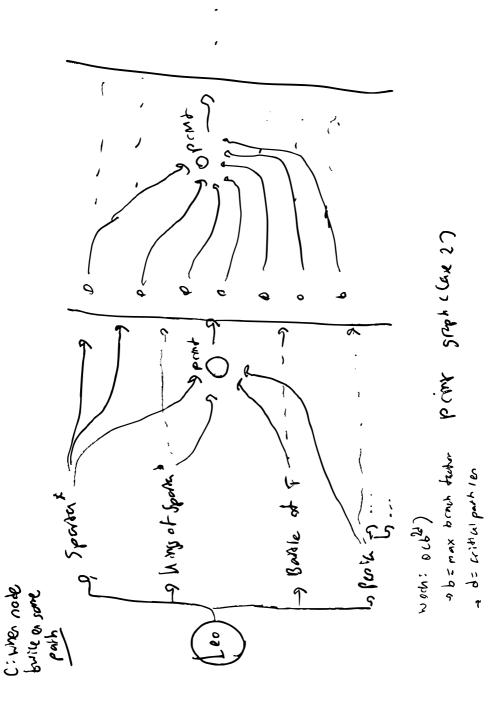
Nows - identify charges

3. Berchmork

Comment path capans and comments.

wan) (pm





Spon, Bcd)

( x7 (con))