24.10.24 Thussday. -> progression e partial order planning for blockworld > Total order planning : fue & queme -> partial order planning : partial Aguerre. + forward progression planning & rigression. Disadvantages: Enponeertial épaile complemity. Gaaph planning: "Have a bake and that it too" Juit: Have (cake) r false (cake)

Action 1: Bake (cake)

Precondition: 7 Haus (cake)

effect: Have (cake)

Action 2: Eat (cake) heword from: Home (cake) Effet: 1 Have (cake) a Eaten (cake) (Bake (cake) (ii) AI Have (cake)—a--THANK (cake) - Id! Eat (cake) - fateu (Cake) -Bake (Cake) -- Teaten (cake) Teaten (cake) - Haten (cake) - - in (of) At the same lead, one lerus o (1) presistent action - - the state remains Lame eg: Have (cake)—II — Have (cake) Actions - Eat (cake), Bake ceake) a, b, c, d, e, f Literale - Plane (ake), Mane (eake), Eaten (eake) TEaten (cake)

States - 80, 81, 82.

Constraints in actions

Muten links (nutually enclusive hinks)

(1) Muten actions

i (a) Inconsisent effect - one effect is regation of other effect

ii (b) Inter ference - one pre condition is negation of other action.

iii (c) competing reads - when 2 precondition are opposite to lack other.

(2) Muten diferals

ix g v x

iv (d) At the same level, one liferal is negation of the other

v (e) Fronvillent Support - Tuo of actions are nutually enclusive. Their effects are also mutually enclusive.

a, b, c, d, e, t

- * fat + Bake > Not nutually enclusive actions

 * Bake (Oake) & [e] -> ""
- p from goal -> go back to action & see which are not mutually enclusive.
- , No muten lue » plan is obtained.
- r his heard follows: ilérature Despening
- p space the problem => TB

ejupta Violios for graph. planning!

* Muten links: nom = l² (no. of liferals)

actions also almost e² $O\left((a+l)^2\right) = The le sponse complemely.$

#NLP-syllow, semanties

"cort cats a fish" Norm verb 1 norm determinant Sylven (1) Morphology for eats - eating, ate, eat good word (2) Part of Specier (pos) nour, veus, determinant, prepositios, adjective, adven eq: cal-eats a fish / eats fish a cat Hono vill madrice Planning diffrentiale the then 2 & which one is right?

(3) chanking / phrases p GNP, VP, PP > preportion phran.

(4) passi bree CFG
graenmer

[content prone graenne]

NP S Approach 2

NP VP

Cats Eats a Fish.

N verb peleminat (VB)

Paring 8 1 subject verb object

is of this is followed, "eats a fish a cat" will

be proved mora.

now phean -> let forwread by norm/ norm

2) Bolton up approvais.

CFG:-

NP -> DT N/N

VP -> VB NP

S -> NP VP

noti: Centinu-alman.

have nown

phears followed

by verts phear.

Q. Draw a Passe Pru for 1) Ram Saw Stay 2) Ram dans stars though a telescope 3) Ram dan Man through a Telescope with eyes. CPG: Ans: NP -> DNIN VP -> VB NP/VP PP PP -> PP NP -) Pouce out precious. Ram Pow Plous NP / Telycope (N) Du-

1) Santoni through or (Det) CFG 8-1 NP -> PTN I N (II) Pegnalia / Discouse VP-7 VB NP 1 VP PP SAM VP. 1PP+

ence in How would offer an there we

our (A, cour (B, city (B), Getter)

. (4 (((45)) ')) you

Country 106