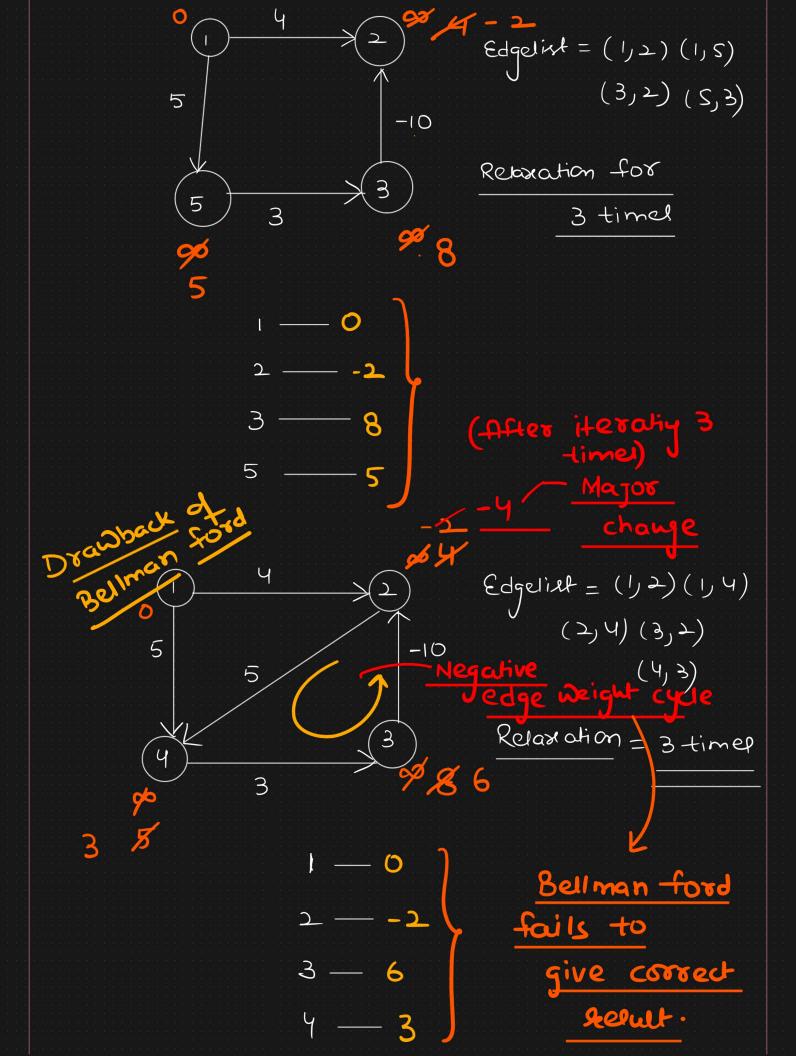


Relaxation

if
$$d(u) + c(u,v) \wedge d(v)$$
:
$$d(v) = d(u) + c(u,v)$$
(Decrease key operation)

Edgelist =
$$(1,2)(1,3)(1,4)(2,5)(3,2)(3,5)$$

 $(4,3)(4,6)(5,7)(6,7)$



$$\frac{1}{\sqrt{(\Lambda \cdot E)}} = \frac{1}{\sqrt{(M \cdot E)}}$$

$$\frac{|V| = \infty}{|V| = |E| = \infty}$$

Goath -) complete grath

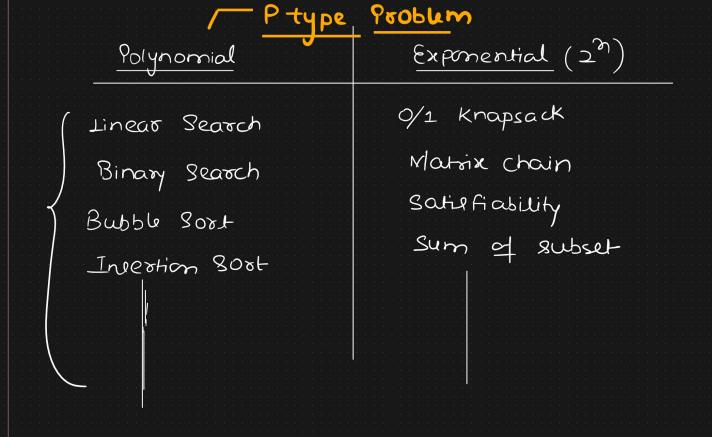
$$\frac{|E| = v * (v-i)}{2}$$

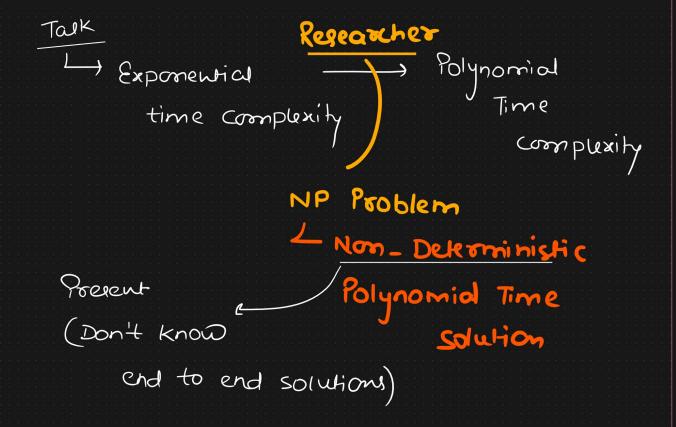
$$\Rightarrow \overline{-(\Lambda_3)}$$

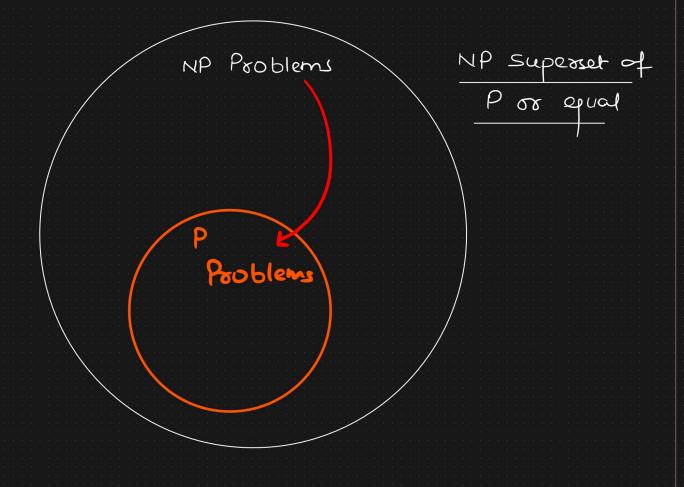
Deterministic algorithm

L) End to end solution (Polynomial time)

(Prevent)







Bare Problem Li common to all the exponential time

problems

(NP- Hard)

Satisfiability -> Base Problem

Di = da, 1 x 2) x 39

 $(x_1 \vee \overline{x}_2 \vee x_3) \wedge (\overline{x}_1 \vee x_2 \vee \overline{x}_3)$

Exponential

-0(2n)

1 True

