\ CURS#5

Tuesday, November 8, 2022

2:06 PM

A recursive
$$G$$
 $f_A(x) = \begin{cases} L & xeA \\ 0 & xeA \end{cases}$

Colonlot: C M . T

A v.c. lames obite
$$\Leftrightarrow$$
 $f_A(x) = \begin{cases} 1 & x \in A \\ 1 & x \neq A \end{cases}$

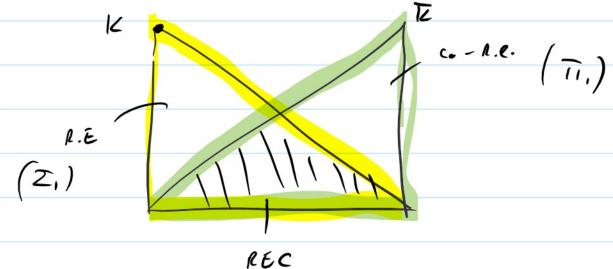
$$= \rangle) \eta \quad \xi_A |_{\lambda} \rangle = \begin{cases} 1 & \chi \in A \\ 0 & \chi \notin A \end{cases}$$

$$m' \quad f_A \quad |x| = \begin{cases} 1 & x \in A \\ 7 & x \notin A \end{cases}$$

$$(=) A r.e. M. f_{A}(x) = \begin{cases} 1 & x \in A \\ 1 & x \notin A \end{cases}$$

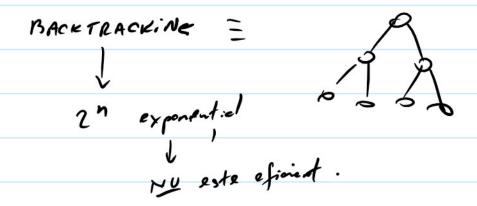
$$\overline{\Pi} r.e. M_{2} f_{\overline{A}}(x) = \begin{cases} 1 & x \in A \\ 1 & x \in A \end{cases}$$

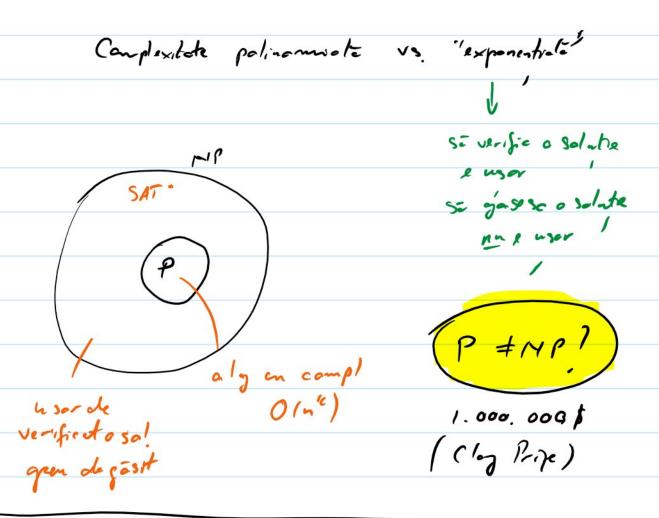
$$\overline{\Pi}(x) : \begin{cases} simpleq in parolel \Pi_{1}(x) \end{cases}$$



A = m B

COMPLEXITATE COMPOTATIONALA (CAP. 2 AROLA - BAKAK)





DTIME(g) =
$$\begin{cases} A & |A| \text{ paste five polities de} \\ O & M.T. \end{cases}$$

$$M(x) \text{ frae } O(f(x)) \end{cases}$$

$$P = \left(\int DTIME \left(\Lambda^{c}\right)\right)$$

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MP (madelgrainistic palgnomial time)

L = 30,13 pste (a close MP => existe un palinon p

p:,14 ->14

3: o mosine Thorny M

(1) M(y) rubejo (n Olyjk) pasi
(2)

XEL (=> 3 ue (0) y p(1))

1.

$$xel \iff fue ?ois = 1$$

$$M(c \times 177) = 1$$
witness (montar)
$$pt \times$$

Exp L= SAT = { p |] " ai. p(2) = TRUE}

x-> 9

M(2x, us)

Talamiese voriabilele déa x

cu valorle specificate

de u

verific co p(u) = TRUE

Exp2 SUMORU MXM

iNPVT Table non partial completeta

ne necis Pat complete restal tables

pêre la o config. la gata

X = coolificance imputation

avant de langue n²
france Heri G.n

O = cosula libera

u = codificore unei completin

prevent de lungine n² frevere litere de la 1... 1.

M(x, u) verifie če

(1) u extinde pe x

(2) u verifie regulite Supath

Exp (TSP) So de natrier de distante

Tanget k pt distante

totala '

De de ois Juneiremit (prin graf on Z d(xi, xi+1) & & /

 $\chi = codificne a inputalina$ u = codificne a circuitalina

M(x, n) verifiée foptul con u este un execut si con l(n) Ex conform luix.