Oct. 8,2012 Monday

Definition 2.1.5 Let u be a string in Et The let u be a string in Et The reversal of u, denoted u, is defined as follows:

i) basis= if leyth (u) = 0, then $u = \lambda$ and $\lambda^{R} = \lambda$

ii) recursive step: if length(u)>0

then u=war for some string word

a ∈ E, and length (w)= n-1

ad uR = aw

u= abcd abc

(abc)2 abcaba of (c5) R Z reverse At big picture: We are trying to a language to define languages. LCE* set of stribes that have some Mes. How to define who: : prendo code like 1. recursive definitions limited set operations 2. regular sets to softhe layres smile to replace to 3. replar expressions (no set braces) ∞ → set is injuite a = () a = 3 2, a, a a, --- } are finite legth styles

a * b * a * b * a * world not work. a* (bub*) a* (bub*) a* are the above expressions differents No. bUb* = b*) does not require a "s" also does not require a "b" b.t b.b* + b* 367 326,666,-...} 5 b, bb, bbb, , ... ?

Example: The set of strings containing on even nomber of "5"5-Over 2=3 a, 53 a* (.ba*b)* a* a* (a*ba*ba*)* a* batb batb a* (a* b a* b a*)* a* (b a * b) * a* in a* (ba* b | a)* out aa a x (b atbat)* ab ba 66