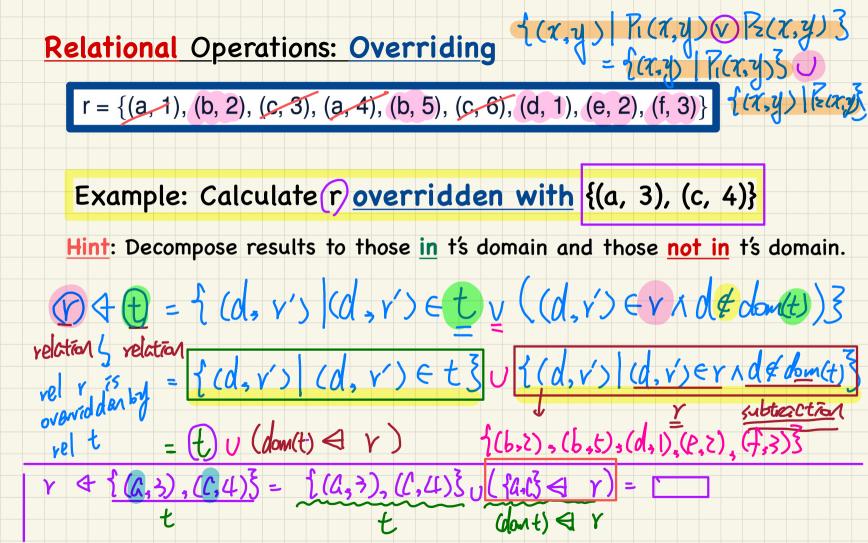
Lecture 8 - Oct. 1

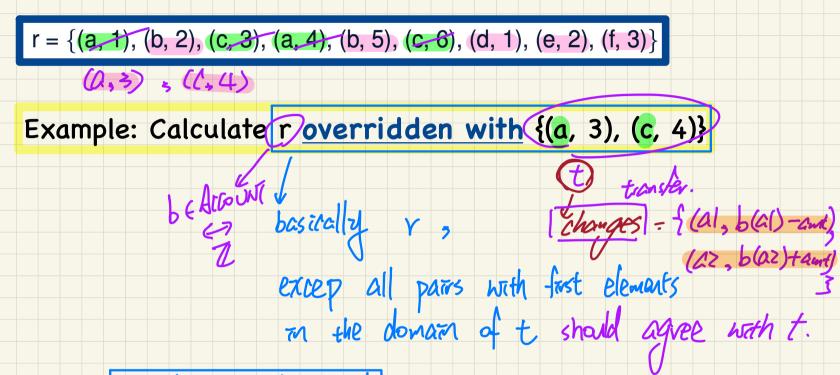
Math Review, Lab1 Solution, Lab2

Algebraic Properties of Relational Ops Lab2: Celebrity_0 Functional Properties

Announcements/Reminders

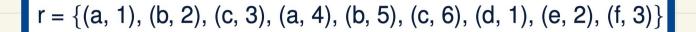
- Lab2 due this Friday
- Guide for **Programming Test 1** released





THINK: transfer event from Lab

Exercises: Algebraic Properties of Relational Operations



r[s] = ran(s < r) Groves a relationGroves a relation

Define the image of set s on r in terms of other relational operations.

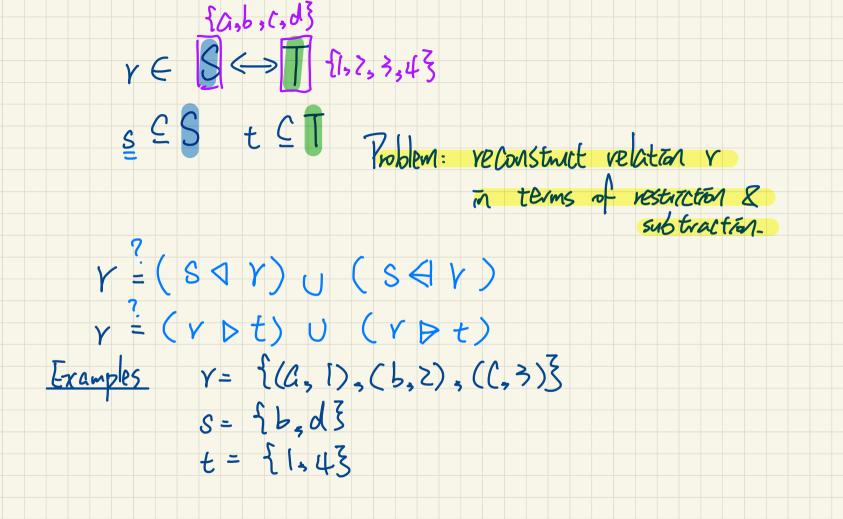
<u>v[S]</u> S= {a,b}

Hint: What range of value should be included?

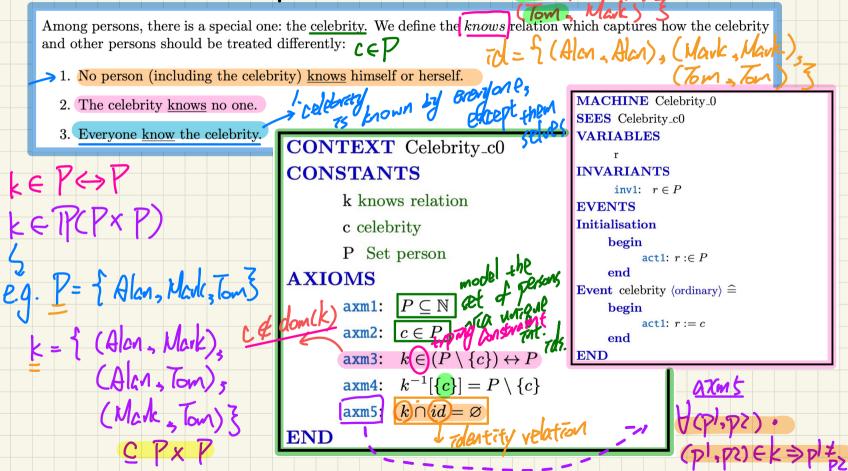
Define r overridden with set t in terms of other relational operations.

Hint: To be in t's domain or not to be in t's domain?

 $r \triangleleft t = t \cup (dan(t) \triangleleft v)$



Lab2: Relational Operators

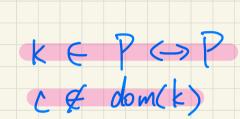


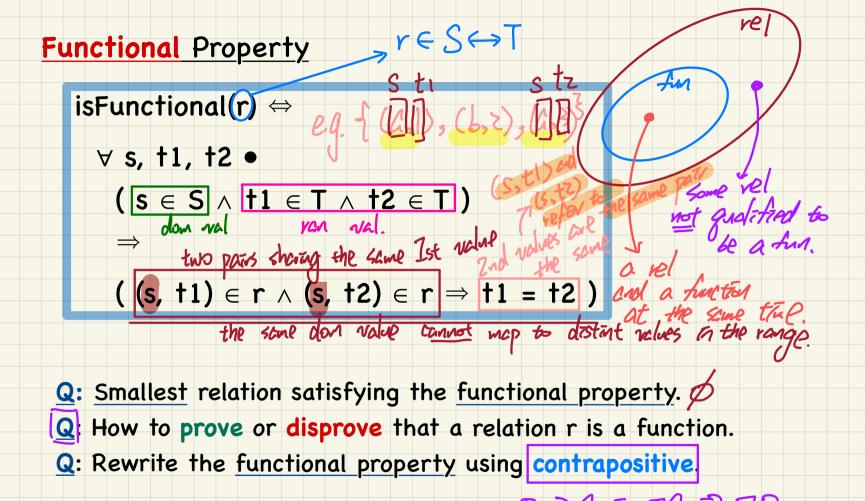
K= { (Mark, Alan),

(Tom, Akr)

tom axim L: <u>(F)[[[[]]]]</u> = P\[[[]]] celebrited is known by except except every person except the themselves celebrety K = { (Mark, Alan); (Tom, Alan); (Tom, Mark; 3 [KO[[Ton]]= [Akn, Klark] celebitta Tom TS known by erezione (Except En







 $r = \{(a, 1), (b, 2), (c, 1)\}$

1. É-cercise : check this against the func. property -> satisfied 2. Injective function