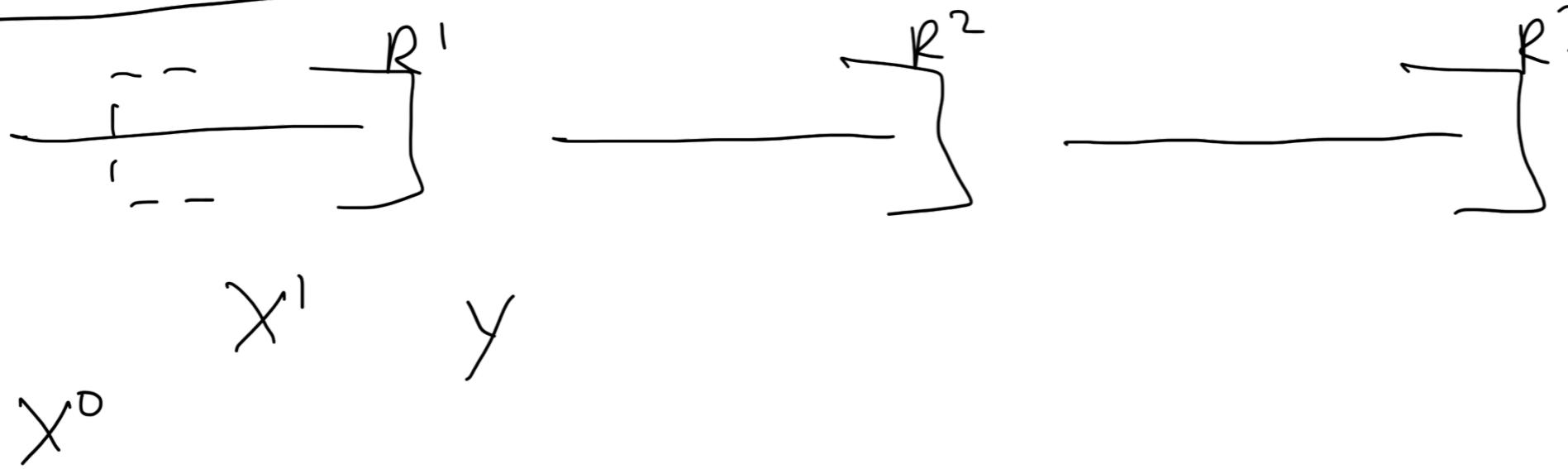


Basic alg (overlapping sorted ranges)

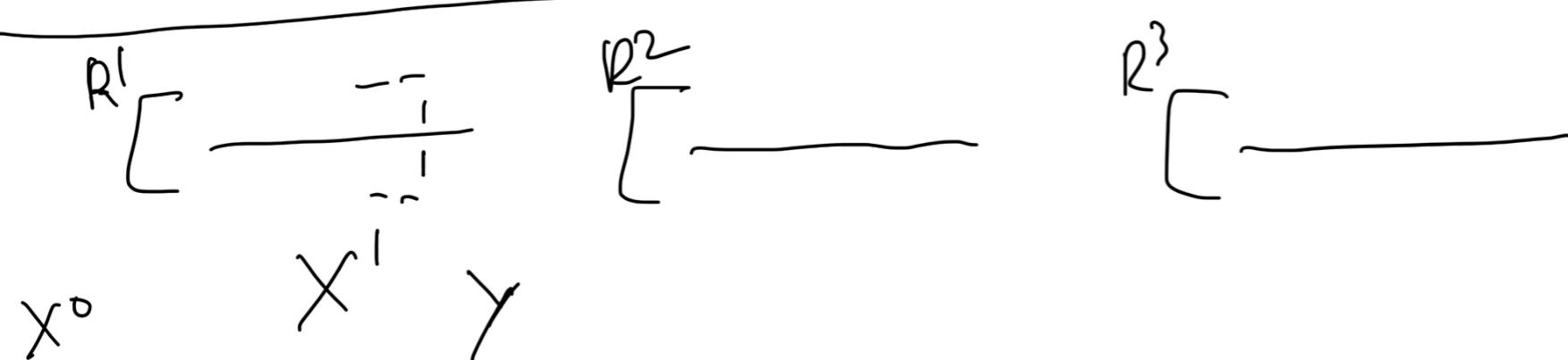


$x^0: x^0 \notin R^1$
but maybe in other

$x^1: x^1 \in R^1$

$y: y > R^1.end, so$

skip R^1



$x^0: x^0 \notin R^1 \text{ and}$
all R start later,
skip x^0

$x^1: x^1 \in R$

$y: R^1.end \leq y$

skip R^1