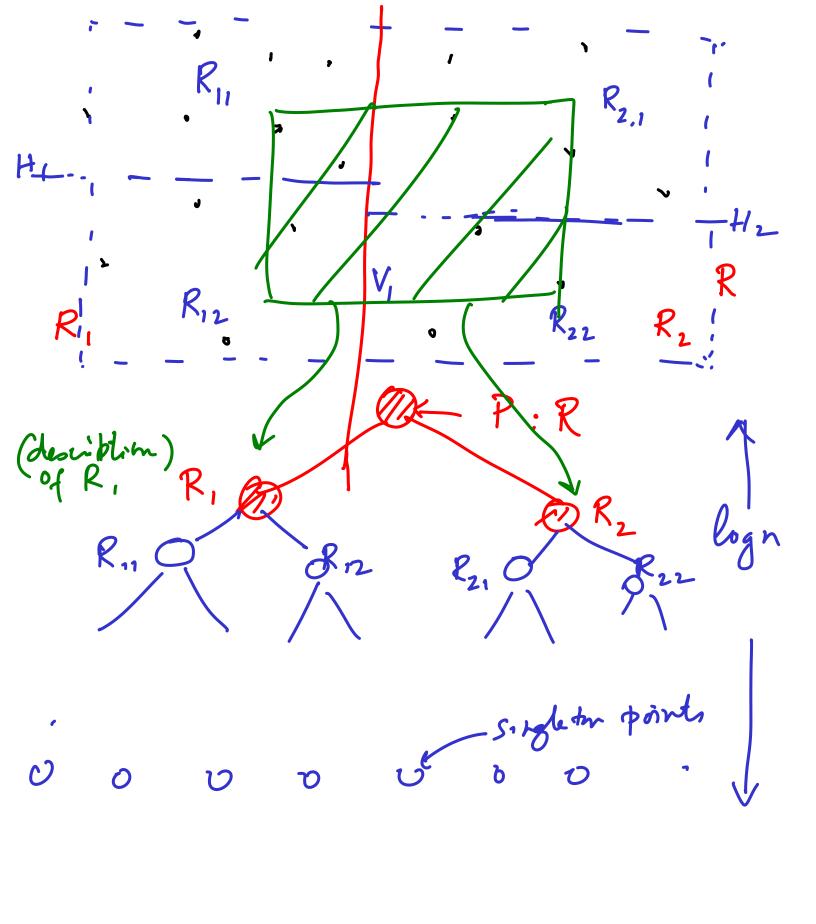
Kin an axis parallel rectangle What is the number of Points within R Prob 1 Report the points willin ? Prob2

Given a set P of parts in the plane, build a data structure to solve the above problems.

Supprise each point has two attributes, age and salary x_i : age y_i : salary A rectange in a cantesian product of entervalo [x, x,] x[y, y] Prob I: Can we achieve glogn)? Prob2: O (logn + q)
fired la r

six q

answer 5 pace : 0 (n) Pre processing Time: ? O(nlogn) 1 2 3 6 4 5 6 7 8 9 10 Store points as sorted array



Space in O(n)
What in the goesy hime?

Overy time is related to the

no. of subvectargles created

by she guery

of Alternately no. of nodes

visited by the guery process