Proportional Sampling -> prob. sampling Let, n = 5 Task:- Pick an element amongst the n-elements such that the prob. of picking an element is proportional to values (dis) randomly pick -> each are equiprobable (do not want that) -> prob. of picking ele d3 -> must be smallest step: 9 @ S = Ed: = 35 (compose the sum) (b) d; = di/s di/ dz, dz, dz Normalizing Using the sum. 0 to 1 Sum of all = \(di = \int \frac{di}{cs} = 1 (C) Cummolative normalization som ã. = d. = 0.0571 d, = 0.0571 d. = d. + d. = 0.228528 di = 0,171428 ãs = di + di +d3 = 0.262828 d3 = --du' = - - ds = di +d2 + - - + ds' = 1 di = 0.5714 d: - Commolative - normalized - value

