Cs261 Final Review (rordr)

Diikstrais Argorithm.

-assemble juisted}, junvisited}

- Set all distances to so

for wrent vertex, examine connected verticies for each of these, calculate the distance from start to that vertex update Distance Add to visited, sen from unvisited.

repeat for smellest connectiving unter

AVI Balance

Leaf Nodes: h=0

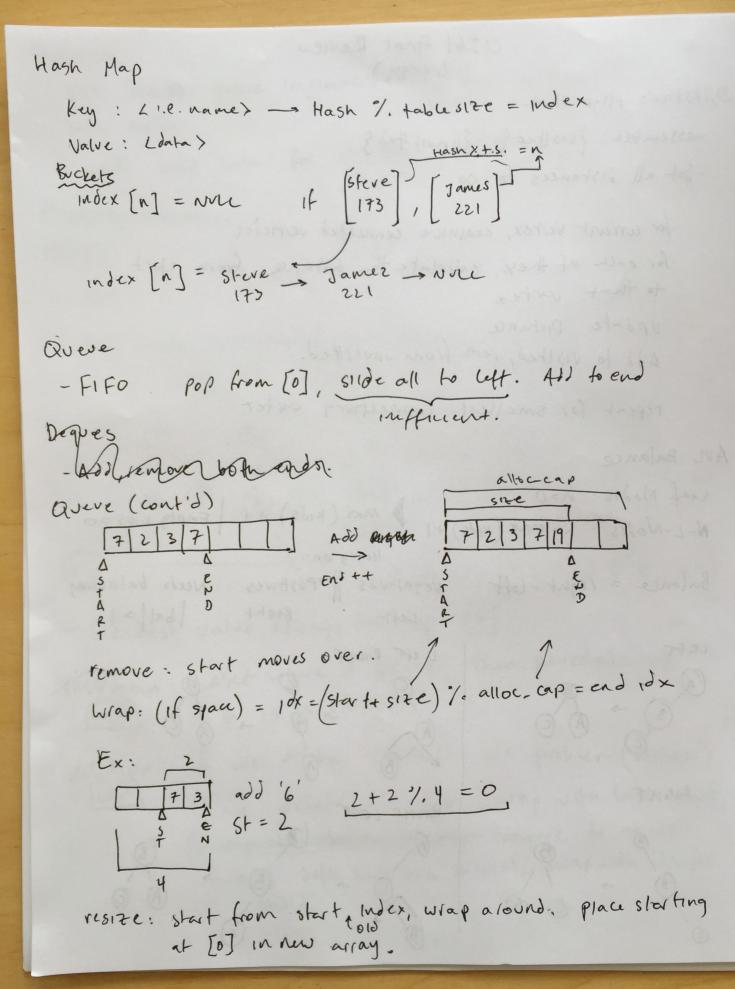
N-L-Nodes: h= mat (14ds) +1

Mak (kids) + 1 | Empty kids = 0

Heavy on .

Balance = right-left

Negatives Posttives Needs balancing reft | pight |bal > 1



Deques -use black greve impumentation, but can add/rem -add loop case for -1 = Start (add start loops end) beth ends. Prortly Quest Heaps - ADT - Any node = each of its Culldren All balanced "complete" to

all lowest on same row,

Any added start at left, such as

"X2"

Sprints to [ab, C, d, f, z, C, x 2] value always on top [o] - Greatest insert where it belongs, then purcolate up Insulan: 16 4 15 > parent. (log n) if we delete the last, No problem (vseless) deletion: If we delete the root, Dowap with last leaf. Logn 2) comp to best cult no Compare to Kids. - if both kids are > root, swap with larger