1 makkun ritop W DAA ands on -11 W centile en total to gas wall to 4 1) Que a dynamic table ( see pectión 17.4) W that doubles in sign when it 0 septions est wint. Josephine search shoot the anothings multine for insorbing in alaments Exdia Use the aggregate moltal in the aggregate 2 4 enter molded aux consider little statel Coef 1 acrose gallintle misorting en l calculate the everage (anostinged) cost les usestion W 5-(15x)90 Withen inecoding the ith element, 0 bebeen ten ei nortentage (spelest) en the 0 la (i) alers energy lappare enteres ett 0 it infolies (copying) the I existing elements 0 to new table of size 2K (k ie so 0 of regige , poporned). 200 Yolal cost = O(n) & > O(nlogn) cost per resistar = O(log n) 9 Runtine: per inscrition - Olog (2) 6 Total time is O(n) se log(n) 5 = (20x)9 P) 0 0 I) Accounting mother of good the accounting 0 0 0

" wedite" that pay for future resujue roste. Relido code: for i = 1 to n If table is full table wer stade = elect wer with singe then copy elements table = new - table allot atu i tranela traku 5 0 = sprole lottin for i = 1 to n 0 charges t=2 5 If table doubled in -- size from zn 5 m=t stiber total charges = 2x n = O(n) total credits = m+2m - 1/2 x m = O(v) subserve ref too begit conti . - total/s = O( N/N) Rustine for useller 0(1) notal time O(n).