1)a) Aggregate method:

In the aggregate method, we amortize the Cost of a series of operation by every distributing it among all the Operations regardless of their acts Cost.

Insertion Operation:

- . When insertis an element, it table is not full the operation takes of time
- · when the table is full, needs to be resized which takes O(h) time to key the elements to double the size.

Number of Insert operation we Perform no Peration

Total Cost

2 2n+3. (cc)

5) Am Runtime for n'elements = O(n)

b) Accounting method:

Truestron When Insertion element of table not full, charge: 2 to wer fedure rousing.

when take is full, It needs to be resized, but the extra Charses Ossisted during Previous Insertions.

a: {2 if table is not full and neededs reserved ]

Number of Insert oferations at Perform n Theortica

Total darses:

A(n) = 2 a = P=1 (0 table is held and needs resizing)

Amortized Cost Per Operation.

A.M vustine for n elements = O(1).