O we use the Aggregate method we Consider The total cost across are the greations a Carculate the average Cost per ansertion

The when anserting the ith Element of we re-size An operation is Not Needed the Crusting happens Cost O(i) as it and the copying of existing Elements.

To the New Table of Size.

A (counting method:

In this method we design

Each Insertion a higher "Anortized Git of

the State.

Pseudo code:

For i=1 to n if table is full

on past table to New table.

Table = New table.

ansert flements i anto table.

initial charge = 0

for i=i don

Change t=2

9f Table doubled an size from and em Credit tom

changes = 2 * n = 0(n)

-) Cost per 9 nsertion = total /n = O(n/n)

- 0(1)

Rundlime for Ansertion = 0(1)
for whole process = 0(1)