Chapter - 17 1 6 To insert in elements using Aggregate mth. Cost of its operation Cose 1:- if we don't take need to allocate new memory = O(1) ase 2: - If we allocate new memory 1=26+1 6=1,2. to include the appairty and double the Gre of array i we need to allocate new memory. Copy over 2k numbers from old to new array and insert new number. Running time = 2 to if i=2 to eser otherwise Gse 2 (b) Accounting method The operation which cause capacity to include are expensive, ? 2 4(1) 1 2 3 -1 when size 18 changed from 4 to 5; the size is doubted and numbers are of copied from old to new one. .. No of Consecutive in +(i) = 2 +1 - (2 +1)-1

 $= \frac{2^{k+1}}{2^{k+1}+1} \approx 2 \text{ if } k = \text{large}$