Chapter-17

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1) a) To insert (n' clements using Aggregate method. Cost of ith operation.

Case: 1 If we don't take need to allocate new memory = o(1)

Case: 2 - If We allocate new memory P=2141 K=1,2...

to include the capacity and double the size of array.

: We need to allocate new memory.

copy over 2k number's from old to new array and insert new number.

> Running time = 2k+1 if i = 2k+1 case 4 Otherwise, Case 2.

1b) Accounting method

The operations which cause capacity to include ave expensive
i 1 2 3 45

Eci) 1 2 3 15

When size is changed from 4 to 5; the Size is doubled and number's are copied from old to new.

no of consecutive in E(1)=21+1-651

(2K-1+1)-1

= 2K+1 = 2 if K= lavge.